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**PLUMBING TOOLS /
CONSTRUCTION TOOLS**

K11

PLUMBING TOOLS / CONSTRUCTION TOOLS

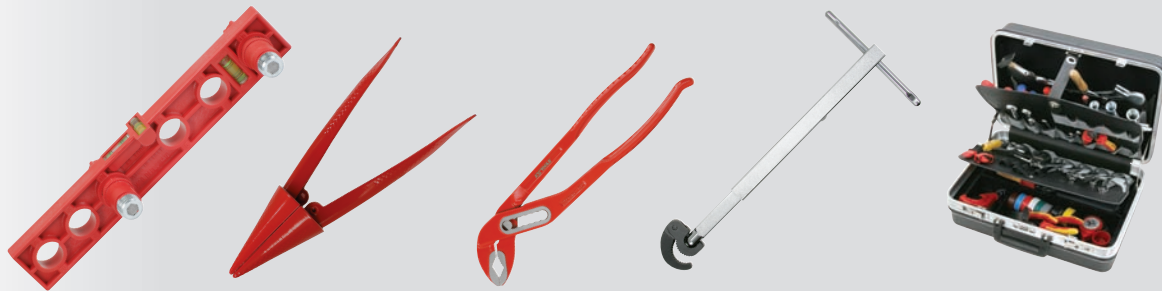


KS TOOLS®

*Tools and
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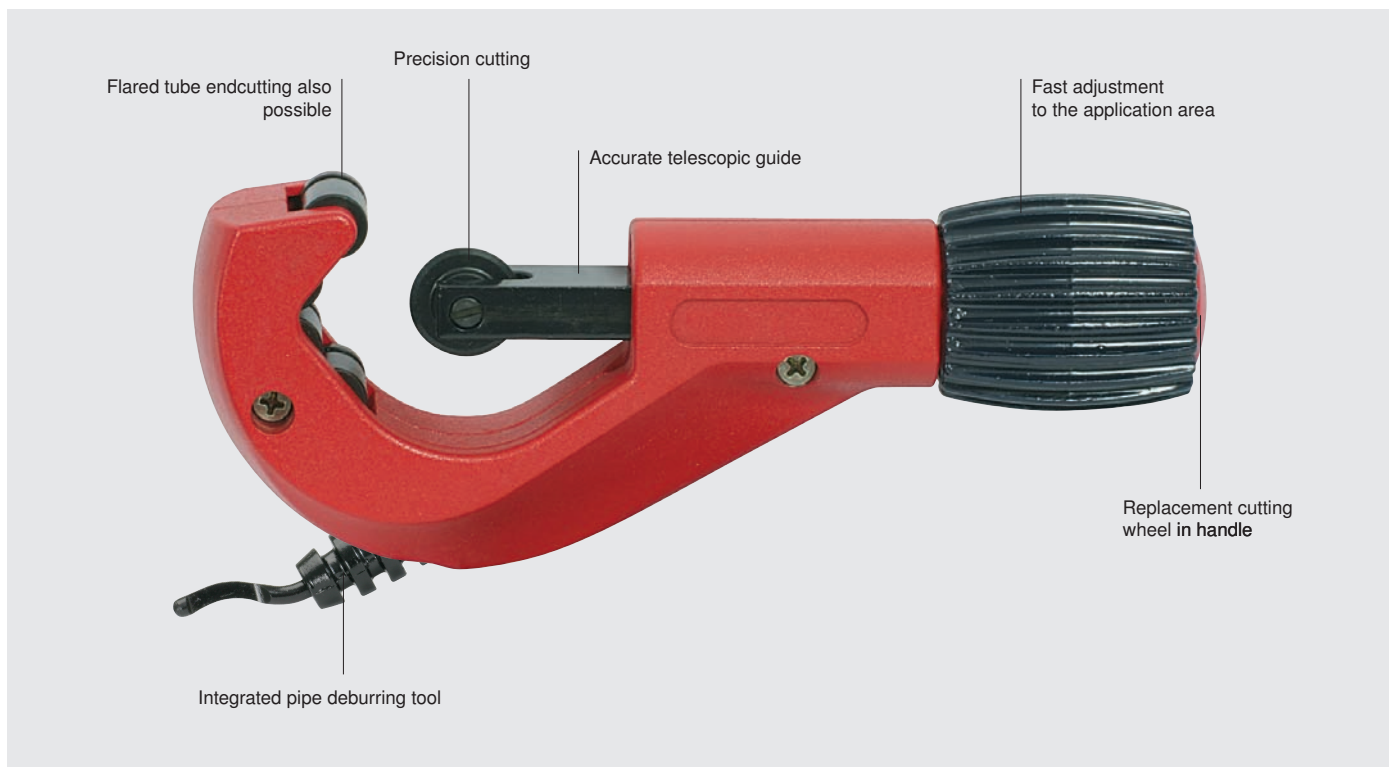
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TELESCOPIC PIPE CUTTING PROGRAM

Technical data



- Ratchet pipe cutter
15-16-22-28 mm



- Automatic ratchet pipe cutter
3-13; 8-23; 8-28,5; 10-23 and 28-67mm



- Telescopic pipe cutter
6-38; 3-42mm

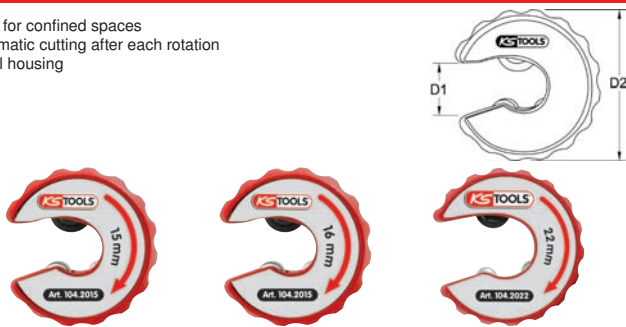


- Telescopic pipe cutter for stainless steel pipes
6-38; 3-42mm

PIPE CUTTERS

Ratchet copper pipe cutter

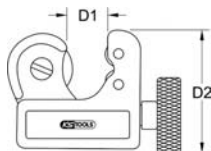
- Ideal for confined spaces
- Automatic cutting after each rotation
- Metal housing



Item	D1 mm	D2 mm	Metal	V/A	Plastic	kg
104.2015	15.0	56.0	104.2001	-	-	180
104.2016	16.0	60.0	104.2001	-	-	180
104.2022	22.0	68.0	104.2001	-	-	240
104.2028	28.0	70.0	104.2001	-	-	240

Mini pipe cutter

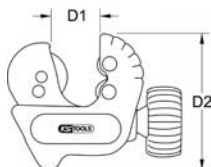
- For copper, brass and thin walled steel tubes
- With 2 support rollers
- V/A cutter can be retrofitted
- With hard chrome plated knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	Metal	V/A	Plastic	kg
101.1000	3,0 - 16,0	35.0	101.1001	101.1002	-	100
101.2000	3,0 - 22,0	40.0	101.1001	101.1002	-	120

Mini pipe cutter

- Ergonomically designed
- For copper, brass and thin walled steel tubes
- With 2 support rollers
- With large impact head
- V/A cutter can be retrofitted
- Metal housing
- Special steel



Item	D1 mm	D2 mm	Metal	V/A	Plastic	kg
101.5000	3,0 - 28,0	55.0	101.1001	101.1002	-	260
101.5016	3,0 - 16,0	41.0	101.1001	101.1002	-	120
101.5022	3,0 - 22,0	50.0	101.1001	101.1002	-	120

Mini pipe cutter display

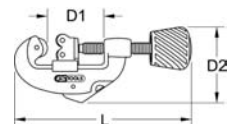
- Ergonomically designed
- For copper, brass and thin walled steel tubes
- With 2 support rollers
- V/A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special steel



Item	kg
101.5000D 12 pcs 12 x 101.5000	3.13

Small pipe cutter

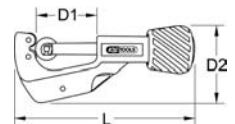
- With folding internal deburrer
- Includes spare wheel under the cover plate on the rotary handle
- With 2 support rollers
- V/A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
102.1000	3,0 - 30,0	55.0	150.0	101.1001	101.1002	-	300

Telescopic pipe cutter

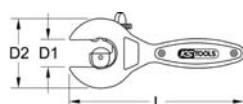
- With folding internal deburrer
- Includes spare wheel under the cover plate on the rotary handle for steel pipe
- With 2 support rollers
- V/A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
103.1000	3,0 - 32,0	57.0	141.0	101.1001	101.1002	-	270

Ratchet pipe cutter

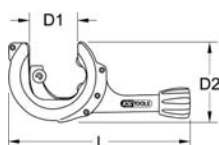
- With 2 support rollers
- With folding internal deburrer
- V²A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V ² A	Plastic	Weight
104.5000	3,0 - 13,0	60.0	120.0	104.5001	104.5005	-	180
104.5002	8,0 - 28,5	75.0	175.0	104.5003	104.5004	-	380
104.5022	6,0 - 23,0	65.0	160.0	222.0665	103.2002	-	360

Ratchet pipe cutter

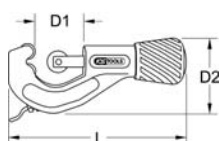
- With 2 support rollers
- Includes spare wheel under the cover cap on the rotary handle
- Cutting depth max. 3 mm
- V²A cutter can be retrofitted
- Ideal for confined spaces
- Robust ratchet mechanism
- With large knurled knob
- Plastic housing
- Ratchet mechanism from special steel



Item	D1 mm	D2 mm	L mm	Metal	V ² A	Plastic	Weight
104.5060	12,0 - 35,0	70.0	180.0	104.5052	104.5052	104.5051	520
104.5050	28,0 - 67,0	110.0	250.0	104.5052	104.5052	104.5051	1000

Telescopic pipe cutter

- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V ² A	Plastic	Weight
103.5000	6,0 - 38,0	60.0	156.0	103.5001	-	-	500

Telescopic pipe cutter display

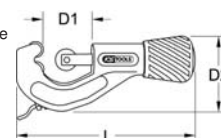
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	Weight
103.5000D	10 pcs 10 x 103.5000 4.80

INOX Telescopic pipe cutter

- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers in stainless steel
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V ² A	Plastic	Weight
103.5000i	6,0 - 38,0	60.0	156.0	-	103.5002	-	500

INOX Telescopic pipe cutter display

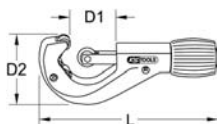
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	Weight
103.5000iD	10 pcs 10 x 103.5000i 5.00

Telescopic pipe cutter

- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel

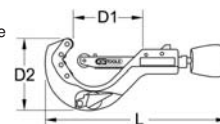


Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
103.5050	3,0 - 42,0	50,0	180,0	103.5001	-	-	450



Automatic ratchet pipe cutter for copper pipe

- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- V/A cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0660-1	6,0 - 64,0	90,0	225,0	222.0665	103.2002	222.0666	500

Telescopic pipe cutter display

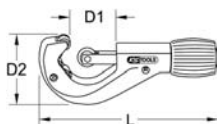
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item			kg
103.5050D	10 pcs	10 x 103.5050	5.60

INOX Telescopic pipe cutter

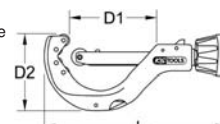
- With removeable internal deburrer
- Accurate telescopic guide
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers in stainless steel
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
103.5050i	3,0 - 42,0	50,0	180,0	-	103.5002	-	500

Automatic ratchet pipe cutter for copper pipe

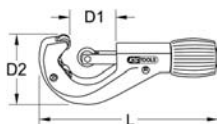
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Plastic cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0750-1	15,0 - 80,0	100,0	250,0	222.0752	-	222.0751	0.80
222.1250-1	50,0 - 140,0	150,0	350,0	222.0752	-	222.1251	1.54

Telescopic pipe cutter

- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel

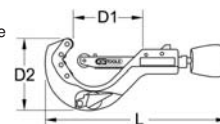


Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
103.5050	3,0 - 42,0	50,0	180,0	103.5001	-	-	450



Automatic ratchet pipe cutter for copper pipe

- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- V/A cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0660-1	6,0 - 64,0	90,0	225,0	222.0665	103.2002	222.0666	500

Telescopic pipe cutter display 3.0 - 42.0 mm

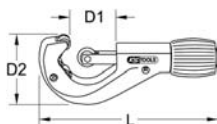
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item			kg
103.5050D	10 pcs	10 x 103.5050	5.60

INOX Telescopic pipe cutter

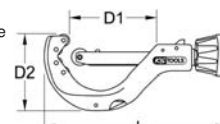
- With removeable internal deburrer
- Accurate telescopic guide
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers in stainless steel
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
103.5050i	3,0 - 42,0	50,0	180,0	-	103.5002	-	500

Automatic ratchet pipe cutter for copper pipe

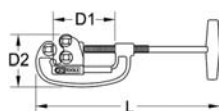
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Plastic cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0750-1	15,0 - 80,0	100,0	250,0	222.0752	-	222.0751	0.80
222.1250-1	50,0 - 140,0	150,0	350,0	222.0752	-	222.1251	1.54

Steel pipe cutter

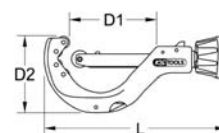
- T-handle for adjusting the working range
- Optimum power transfer
- With 2 support rollers
- Metal housing
- Special steel



Item	D1	D2 mm	L mm	Metal	V/A	Plastic	kg
110.1000	1/8" - 2"	108.0	378.0	110.1001	-	-	2.50
110.1014	1/8" - 1.1/4"	82.0	265.0	110.1015	-	-	1.50

Automatic ratchet pipe cutter for copper pipe

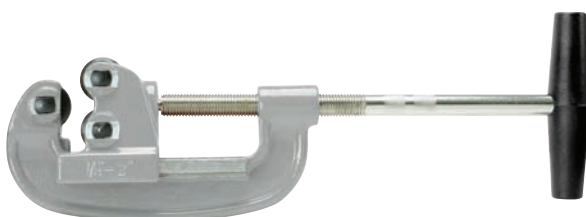
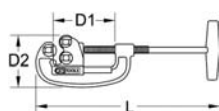
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Plastic cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0750	15,0 - 80,0	100,0	250,0	222.0752	-	222.0751	0.80
222.1250	50,0 - 140,0	150,0	350,0	222.0752	-	222.1251	1.54

INOX Steel pipe cutter

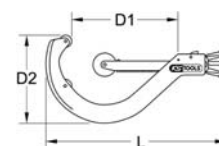
- T-handle for adjusting the working range
- Optimum power transfer
- With 2 support rollers in stainless steel
- Metal housing
- Special steel



Item	D1	D2 mm	L mm	Metal	V/A	Plastic	kg
110.1000i	1/8" - 2"	108.0	378.0	-	110.1002	-	2.50
110.1014i	1/8" - 1.1/4"	82.0	265.0	-	110.1016	-	1.50

Automatic ratchet pipe cutter for plastic pipe

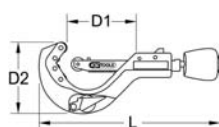
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Metal cutter can be retrofitted
- Cutting depth max. 19 mm
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.1680	100,0 - 168,0	190,0	385,0	-	-	222.1251	1.60

Automatic ratchet pipe cutter for plastic pipe

- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Cutting depth max. 5 mm
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel

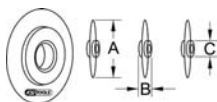


Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	kg
222.0660	6,0 - 64,0	90,0	225,0	222.0665	-	222.0666	500



Replacement cutting wheel for pipe cutters

- Special steel

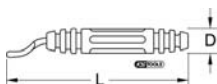


Item	A mm	B mm	C mm	Metal	V/A	Plastic	Weight
101.1001	18.2	3.0	4.8	x	-	-	40
101.1002	18.0	3.0	4.8	-	x	-	30
103.2002	18.2	6.2	4.8	-	x	-	10
103.5001	20.0	4.9	5.1	x	-	-	10
103.5002	20.0	4.9	5.1	-	x	-	10
104.5005	15.3	3.0	4.5	-	x	-	10
110.1002	31.4	18.9	8.3	-	x	-	30
110.1015	25.6	13.5	7.5	x	-	-	30
110.1016	25.6	13.5	7.5	-	x	-	30
222.0665	18.2	6.2	4.8	x	-	-	50
222.0666	26.0	8.8	8.5	-	-	x	10
222.0751	42.0	8.7	8.5	-	-	x	20
222.0752	32.0	10.9	8.6	x	-	-	20
222.1251	25.9	11.1	9.4	-	-	x	20

DEBURRING

Quick deburrer

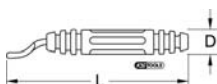
- For pipe cutter 103.5000 + 103.5050
- For tubes, sheets and profiles
- Blade is not replaceable
- Soft grip handle
- Special steel



Item	L mm	D mm	Weight
103.5005	88.0	12.0	20

Quick deburrer for stainless steel

- For pipe cutter 103.5000i + 103.5050i
- For tubes, sheets and profiles
- Blade is not replaceable
- Soft grip handle
- Special steel



Item	L mm	D mm	Weight
103.5007	90.0	15.0	20

Universal quick deburrer

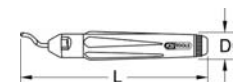
- For tubes, sheets and profiles
- Non interchangeable blade E100
- With anodized aluminum handle
- Special steel
- Comes with E-100 HSS



Item	L mm	D mm	Weight
205.2020	140.0	21.0	60

Universal quick deburrer

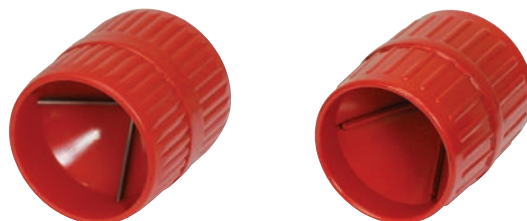
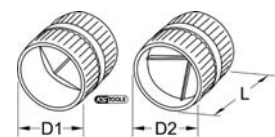
- For tubes, sheets and profiles
- With blade storage
- Interchangeable blades
- With soft grip handle
- Special steel



Item	L mm	D mm	Weight
205.2500	150.0	21.0	50

Internal and external deburrer

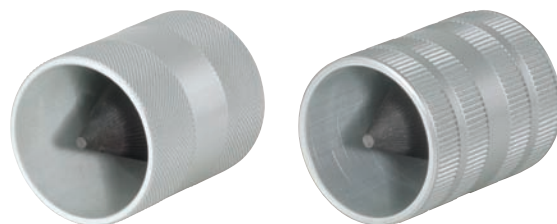
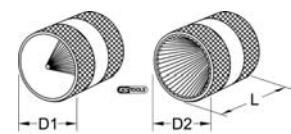
- 3 cutting edges for clean deburring
- For copper, aluminum and soft steel piping
- Plastic or metal body
- Special steel



Item		D1 mm	D2 mm	L mm	Weight
105.1000	Metal	3,0 - 40,0	6,0 - 40,0	57.0	240
105.2000	Plastic	3,0 - 42,0	6,0 - 42,0	50.0	240

Universal INOX Internal and external deburrer

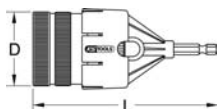
- 3 cutting edges for clean deburring
- For copper, aluminum, steel, stainless steel and plastic pipes
- Polished aluminium body
- Special steel



Item	D1 mm	D2 mm	L mm	Weight
105.3000	10,0 - 54,0	10,0 - 54,0	85.0	350
105.3001	10,0 - 35,0	10,0 - 35,0	61.0	190

Adaptor for pipe deburrer

- For deburrer 105.3001
- 1/4" Hexagon drive
- Suitable for drills and cordless screwdrivers



Item	D mm	L mm	
105.3005	50.0	90.0	30

Replacement blade for deburring

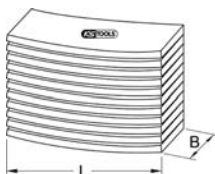
- Special steel
- Can be used in deburring 205.2500



Item		
205.2011	A	HSS E 100 30
205.2012	B	HSS E 200 30
205.2013	C	HSS E 300 30

Cleaning pad set

- Metal free
- For fast, groove cleaning of solder joints in copper pipes
- Reduction of corrosion damage
- Flexible
- Wet and dry usage
- 10 pcs pack



Item	B mm	L mm	
201.3000	75.0	130.0	70

Copper pipe external brush

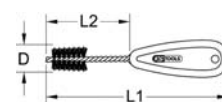
- For copper and brass pipes
- Housing out of durable plastic



Item	D1 mm	D2 mm	H mm	
201.2212	25.0	12.0	17.0	20
201.2215	30.0	15.0	23.0	30
201.2218	38.0	18.0	28.0	40
201.2222	45.0	22.0	33.0	50
201.2228	58.0	28.0	43.0	60

Copper pipe internal brush

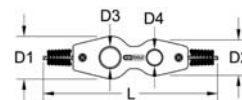
- With hanging hole
- With plastic handle
- For surface preparation
- Steel wire



Item	D mm	L1 mm	L2 mm	
201.1208	8.0	160.0	75.0	40
201.1210	10.0	160.0	75.0	40
201.1212	12.0	160.0	75.0	40
201.1215	15.0	160.0	75.0	40
201.1216	16.0	160.0	75.0	50
201.1218	18.0	160.0	75.0	50
201.1222	22.0	160.0	75.0	50
201.1228	28.0	160.0	75.0	50
201.1235	35.0	160.0	75.0	50

Copper pipe brush 2 in 1

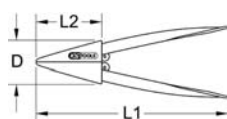
- For inside and outside cleaning
- With plastic body
- For surface preparation
- Steel wire



Item	D1 mm	D2 mm	D3 mm	D4 mm	L mm	
201.2250	16.0	14.0	16.0	14.0	130.0	50

Lead pipe expanding pliers

- For the widening of lead pipes up to max. Ø 1.1/2"
- Powder coated
- Body made of sheet steel tongs



Item	Ø mm	Ø	L1 mm	L2 mm	kg
116.7000	0 - 38,1	1.1/2"	240.0	84.0	360

PIPE EXPANDING

Expander set 12.0 - 22.0 mm

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item	kg
202.1100 5 pcs Expander set 12.0 - 22.0 mm	2.89
1 x	
4 x	12 - 15 - 18 - 22 mm

Expander set 12.0 - 28.0 mm

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item	kg
202.1101 6 pcs Expander set 12.0 - 28.0 mm	3.34
1 x	
5 x	12 - 15 - 18 - 22 - 28 mm

Expander set 12.0 - 22.0 mm

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item	kg
202.1102 5 pcs Expander set 12.0 - 22.0 mm	2.89
1 x	
4 x	12 - 15 - 16 - 22 mm

Expander set 12.0 - 22.0 mm

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item	kg
202.1103 6 pcs Expander set 12.0 - 22.0 mm	3.20
1 x	
5 x	12 - 14 - 16 - 18 - 22 mm

Expander set 3/8" - 1.1/8"

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item	kg
202.1104 6 pcs Expander set 3/8" - 1.1/8"	4.20
1 x	
5 x	3/8" - 3/4" - 7/8" - 1" - 1.1/8"

Expander set 3/8" - 7/8"

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item				
202.1105	6 pcs	Expander set 3/8" - 7/8"	2.74	
1 x				
5 x		3/8" - 1/2" - 5/8" - 3/4" - 7/8"		

Expander set 3/8" - 1.1/8"

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item				
202.1107	7 pcs	Expander set 3/8" - 1.1/8"	2.90	
1 x				
6 x		3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1.1/8"		

Expander set 12.0 - 28.0mm

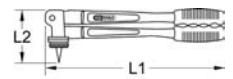
- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel
- In durable plastic storage case



Item				
202.1108	7 pcs	Expander set 12.0 - 28.0mm	3.50	
1 x				
6 x		12 - 14 - 16 - 18 - 22 - 28 mm		

Expander pliers with automatic mandrel withdrawal

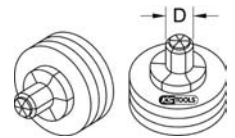
- Base unit for receiving the expander heads
- Special steel



Item	L1 mm	L2 mm		
202.1000R	380.0	120.0	1.00	

Expander head, rivet free

- To produce standard precision sleeves
- Extra long and chamfered expander head segments
- Positive control ensures perfect centering
- Stainless steel



Item	D mm	D		
202.1210	10,0	-	100	
202.1212	12,0	-	100	
202.1214	14,0	-	110	
202.1215	15,0	-	110	
202.1216	16,0	-	120	
202.1218	18,0	-	120	
202.1222	22,0	-	150	
202.1228	28,0	-	180	
202.1232	32,0	-	170	
202.1235	35,0	-	430	
202.1242	42,0	-	500	
202.1201	-	3/8"	110	
202.1202	-	1/2"	110	
202.1203	-	5/8"	120	
202.1204	-	3/4"	130	
202.1205	-	7/8"	140	
202.1206	-	1"	150	
202.1236	-	1.1/8"	160	
202.1207	-	1.1/4"	180	
202.1237	-	1.5/8"	480	

Flanger set 12.0 - 22.0 mm

- The production of T exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special steel
- In durable plastic storage case



Item				kg	
202.2100	7 pcs	Flanger set 12.0 - 22.0 mm		2.95	
1 x					
1 x		8 - 42 mm			
1 x					
4 x		12 - 15 - 18 - 22 mm			

Flanger set 12.0 - 28.0 mm

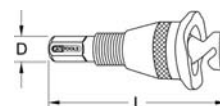
- The production of T exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special steel
- In durable plastic storage case



Item				kg	
202.2101	8 pcs	Flanger set 12.0 - 28.0 mm		3.00	
1 x					
1 x		8 - 42 mm			
1 x					
5 x		12 - 15 - 18 - 22 - 28 mm			

Expander head, rivet free

- The production of T exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special steel



Item	D mm	L mm	kg	
202.2010	10.0	70.0	70	
202.2012	12.0	75.0	100	
202.2014	14.0	75.0	140	
202.2015	15.0	80.0	150	
202.2016	16.0	80.0	150	
202.2018	18.0	90.0	190	
202.2022	22.0	95.0	260	
202.2028	28.0	100.0	300	
202.2035	35.0	110.0	500	
202.2042	42.0	120.0	660	

BENDING & FLANGING

Copper pipe external bending spring

- For hand bending of soft copper tubing
- Angled cone
- Optimum spring form prevents buckling in the bending radius
- Special steel



Item	D mm	D	L mm	kg	
203.0008	8,0	-	290.0	80	
203.0010	10,0	-	290.0	80	
203.0012	12,0	-	290.0	110	
203.0014	14,0	-	290.0	170	
203.0015	15,0	-	290.0	200	
203.0016	16,0	-	290.0	220	
203.0018	18,0	-	290.0	280	
203.0022	22,0	-	290.0	440	
203.0001	-	1/4"	290.0	60	
203.0002	-	5/16"	290.0	80	
203.0003	-	3/8"	290.0	100	
203.0004	-	1/2"	290.0	160	
203.0005	-	5/8"	290.0	220	
203.0006	-	3/4"	290.0	280	



Copper pipe internal bending spring for coated copper tubes

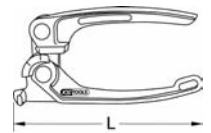
- For hand bending of soft copper tubing
- Optimum spring form prevents buckling in the bending radius
- Special steel



Item	D mm	L mm	
203.0310	10 x 12	910.0	260
203.0312	12 x 14	915.0	280
203.0313	13 x 15	890.0	460
203.0314	14 x 16	900.0	500
203.0316	16 x 18	925.0	600
203.0320	20 x 22	910.0	700

3 in 1 mini bender

- For exact two handed bending up to 90°
- For copper, aluminum, brass and soft steel piping
- For 3 dimensions without exchange of bending segments
- Undersize and bend radius on the bending form
- Special steel



Item	Ø mm	Ø	L mm	
120.1050	3,0 + 4,75 + 6,0	1/8" + 3/16" + 1/4"	140.0	150

3 in 1 mini bender

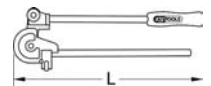
- For exact two handed bending up to 180°
- For copper, aluminum, brass and soft steel piping
- For 3 dimensions without exchange of bending segments
- Undersize and bend radius on the bending form
- Special steel



Item	Ø mm	Ø	L mm	
120.1000	6,0 + 8,0 + 10,0	-	270.0	420
120.1001	-	1/4" + 5/16" + 3/8"	240.0	420

Standard two handed bender

- For exact two handed bending up to 180°
- For soft copper, aluminum, brass and soft steel piping
- Clamping device for a better gripping of the tube
- Fatigue free operation due to lightweight construction
- Special steel



Item	Ø mm	Ø	L mm	
122.1006	6,0	-	285.0	530
122.1008	8,0	-	330.0	650
122.1010	10,0	-	350.0	920
122.1012	12,0	-	310.0	920
122.1014	14,0	-	425.0	1330
122.1015	15,0	-	440.0	1330
122.1016	16,0	-	440.0	1330
122.1017	-	1/4"	285.0	500
122.1018	-	5/16"	330.0	650
122.1019	-	3/8"	350.0	950
122.1020	-	1/2"	310.0	1300
122.1021	-	5/8"	440.0	1300

Copper pipe external bending spring

- For hand bending of soft copper tubing
- Optimum spring form prevents buckling in the bending radius
- Special steel



Item	D mm	L mm	
203.0110	10.0	245.0	140
203.0112	12.0	245.0	200
203.0114	14.0	260.0	300
203.0116	16.0	270.0	320
203.0118	18.0	285.0	450
203.0120	20.0	305.0	480
203.0122	22.0	320.0	550

Internal bending spring for PE plastic pipes

- For hand bending of PE plastic pipes
- Optimum spring form prevents buckling in the bending radius
- Special steel

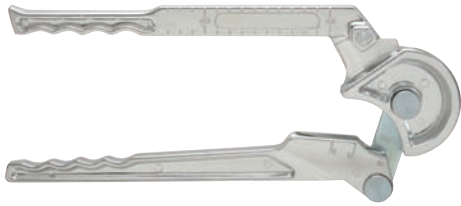
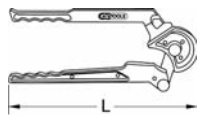


Item	D mm	L mm	
203.0210	10.0	86.0	220
203.0213	13.0	88.0	400
203.0216	16.0	90.0	490
203.0220	20.0	95.0	680



Copper pipe two handed bender

- For exact two handed bending up to 180°
- For soft, semi hard and coated copper tube
- Precise bending due to bending radius formers
- Fatigue free operation due to lightweight construction
- Aluminium



Item	Ø mm	L mm	kg
122.0010	10,0	260,0	0.35
122.0012	12,0	310,0	0.65
122.0014	14,0	370,0	1.00
122.0015	15,0	420,0	1.45
122.0016	16,0	420,0	1.50

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special steel
- In durable plastic storage case



Item	kg
203.1200 9 pcs Ratchet single handed bending set 10.0 - 22.0 mm	2.76
1 x 	
8 x 	10 - 12 - 14 - 15 - 16 - 18 - 20 - 22 mm

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special steel
- In durable plastic storage case



Item	kg
203.1201 7 pcs Ratchet single handed bending set 10.0 - 22.0 mm	2.62
1 x 	
6 x 	10 - 12 - 14 - 16 - 18 - 22 mm

Ratchet single handed bending set 3/8" - 7/8"

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special steel
- In durable plastic storage case



Item	kg
203.1202 6 pcs Ratchet single handed bending set 3/8" - 7/8"	2.69
1 x 	
5 x 	3/8" - 1/2" - 5/8" - 3/4" - 7/8"

Aluminium bending formers

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Aluminium



Item	Ø mm	Ø	Bend radius mm	kg
203.1210	10,0	-	42,0	70
203.1212	12,0	-	43,0	70
203.1214	14,0	-	46,0	70
203.1215	15,0	-	50,0	70
203.1216	16,0	-	55,0	70
203.1218	18,0	-	66,0	70
203.1220	20,0	-	73,0	70
203.1222	22,0	-	78,0	70
203.1230	-	3/8"	35,0	80
203.1231	-	1/2"	48,0	80
203.1232	-	5/8"	58,0	80
203.1233	-	3/4"	69,0	100
203.1234	-	7/8"	88,0	150

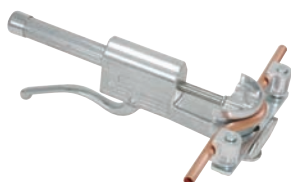


Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- For soft copper and composite pipes
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- The basic unit, bending and formers in aluminium
- In durable plastic storage case



Item				kg
203.1101	9 pcs	Ratchet single handed bending set 10.0 - 22.0 mm		4.46
1 x				
6 x		10 - 12 - 14 - 16 - 18 - 22 mm		
2 x		10 - 16 mm + 18 - 22 mm		



Aluminium bending formers

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Aluminium



Item	Ø mm	Bend radius mm	kg
203.1010	10,0	42.0	60
203.1012	12,0	43.0	60
203.1014	14,0	46.0	70
203.1015	15,0	50.0	80
203.1016	16,0	55.0	80
203.1018	18,0	66.0	90
203.1020	20,0	73.0	100
203.1022	22,0	78.0	110
203.1026	26,0	68.0	130
203.1032	32,0	96.0	290

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special steel
- In durable plastic storage case



Item				kg
203.1400	11 pcs	Ratchet single handed bending set 10.0 - 22.0 mm		3.00
1 x				
2 x				
8 x		ø 10 - 12 - 14 - 15 - 16 - 18 - 20 - 22 mm		

Hydraulic pipe bending Set 12 t, 3/8" - 2"

- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steel
- In durable transport storage case

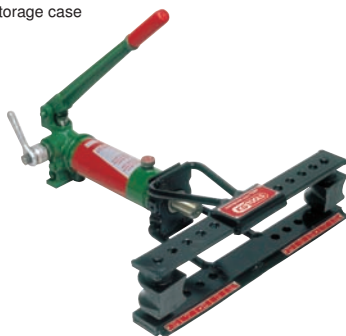


Item				kg
902.1100	8 pcs	Hydraulic Pipe Bending Set 12 t, 3/8" - 2"		77.00
1 x		12 t		
7 x		3/8" - 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"		



Hydraulic pipe bending Set 8 t, 3/8" - 1 1/4"

- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steel
- In durable transport storage case



Item				kg
902.1101	6 pcs	Hydraulic Pipe Bending Set 8 t, 3/8" - 1 1/4"		47.00

1 x		8 t
5 x		3/8" - 1/2" - 3/4" - 1" - 1.1/4"

Electric hydraulic pipe bending Set 8 t, 3/8" - 1 1/4"

- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steel
- In durable transport storage case



Item				kg
902.1120	6 pcs	Electric Hydraulic Pipe Bending Set 8 t, 3/8" - 1 1/4"		67.00

1 x		8 t
5 x		3/8" - 1/2" - 3/4" - 1" - 1.1/4"

Air cooling flaring and sleeve set 1/8" - 3/4"

- To produce straight forward bending 45° and capillary sockets on copper, brass, aluminum and thin walled steel tube
- For crimping and expansion of refrigeration and air conditioning lines
- In durable plastic storage case



Item				kg
122.1100	10 pcs	Air cooling flaring and sleeve set 1/8" - 3/4"		2.30

Flange tool metric with quick clamping device

- Flange guides for 6, 8, 10, 12, 15 + 16 mm
- For the manufacture of conical flaring 45°
- Very precise crimp due to flange cone with special geometry
- For mobile use
- Special steel



Item	H mm	L mm	kg
122.0500	100.0	160.0	900

Flanging tool imperial with quick clamping device

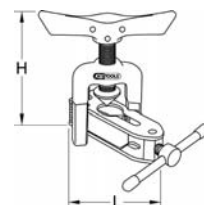
- Flange guides for 3/16", 1/4", 5/16", 3/8", 1/2" + 5/8"
- For the manufacture of conical flaring 45°
- Very precise crimp due to flange cone with special geometry
- For mobile use
- Special steel



Item	H mm	L mm	kg
122.0501	100.0	160.0	940

Universal flanger imperial + metric with quick clamping device

- For pipe 4-16mm + 3/16"-5/8"
- For the manufacture of conical flaring 45°
- Very precise crimp due to flange cone with special geometry
- Self centering clamping
- For mobile use
- Special steel



Item	H mm	L mm	kg
122.0525	100.0	110.0	900

Flanger set 1/8" - 3/4" and 6.0 - 19.0 mm

- To produce easy bending 45° on copper pipes
- Self centering punching tool
- 3/8" square drive in thumb screw for use with a ratchet
- In durable plastic storage case



Item				kg
122.0810	6 pcs	Flanger Set 1/8" - 3/4" and 6.0 - 19.0 mm	3.21	

Flanger set Ø 10.0 - 22.0 mm

- To produce easy bending 45° on copper pipes
- In durable plastic storage case

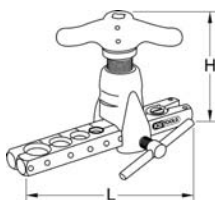


Item				kg
122.2201	6 pcs	Flanger-Set Ø 10.0 - 22.0 mm	3.00	

1 x		6 - 14 mm, 90°
1 x		10 - 22 mm
4 x		10-18 - 12-20 - 14-22 - 16-24 mm

Flanging tool, metric

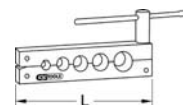
- Flange guides for 6, 8, 10, 12, 14, 16 + 19 mm
- For the manufacture of easy flaring 45°
- Self centering plate
- Includes 3/8" adapter for Screwdrivers
- For mobile use
- Special steel



Item	H mm	L mm	kg
122.0808	135.0	210.0	1.60

Flange guides for 6.0 - 14.0 mm

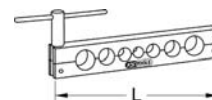
- Flange guides for 6 - 8 - 10 - 12 + 14 mm
- For the manufacture of conical flaring 45°
- For mobile use
- Special steel



Item	L mm	kg
122.1400	130.0	470

Flange guides for 10.0 - 22.0 mm

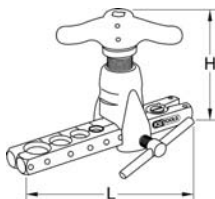
- Flange guides for 10 - 12 - 14 - 16 - 18 - 20 + 22 mm
- For the manufacture of conical flaring 45°
- For mobile use
- Special steel



Item	L mm	kg
122.2200	225.0	1.10

Flanging tool, imperial

- Flange guides for 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" + 3/4"
- For the manufacture of easy flaring 45°
- Self centering plate
- Includes 3/8" adapter for Screwdrivers
- For mobile use
- Special steel



Item	H mm	L mm	kg
122.0821	140.0	190.0	1.60

Flange cones

- Flange guides for 6.0 - 22.0 mm
- For the manufacture of conical flaring
- For mobile use
- Special steel



Item	Ø mm		L mm	
122.1460	6,0 - 14,0	90°	108.0	270
122.2260	10,0 - 22,0	60°	131.0	285
122.2290	10,0 - 22,0	90°	150.0	325

THREADING TOOLS

Threading tool set 3/8" - 1.1/4"

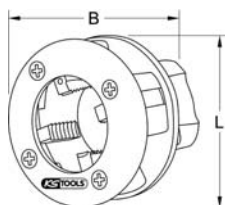
- With cutting edge for thread BSPT right hand according to DIN 2999
- Compact construction
- Light work in inaccessible places
- Handy to switch the direction of the ratchet
- Easy change of cutting heads
- Special steel



Item			
903.3300	8 pcs	Threading tool set 3/8" - 1.1/4"	6.20
5 x		3/8" - 1/2" - 3/4" - 1" - 1.1/4"	
1 x			
1 x			
1 x			

Die head

- With cutting edge for thread BSPT right hand according to DIN 2999
- Compact construction
- Light work in inaccessible places
- Special steel



Item	Ø	B mm	L mm	Replacement jaws	
903.3301	3/8"	63.0	69.0	903.3311	500
903.3302	1/2"	64.0	70.0	903.3312	550
903.3303	3/4"	70.0	70.0	903.3313	650
903.3305	1.1/4"	92.0	80.0	903.3315	850
903.3304	1"	83.0	77.0	903.3314	800

Plumbing tool set

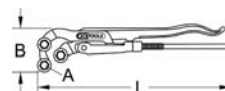
- With cutting edge for thread BSPT right hand according to DIN 2999
- The complete steel processing
- Light work in inaccessible places
- Handy to switch the direction of the ratchet
- Easy change of cutting heads
- Special steel



Item			
987.0600	8 pcs	Plumbing tool set	14.72
1 x		1/8" - 2"	
1 x		1.1/2"	
1 x		10"	
1 x		3/8" - 1.1/4"	

Thread roughing pliers

- For roughening of the thread after thread cutting
- Uniform roughening over the entire circumference
- Special tool steel

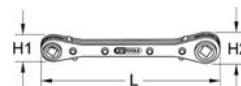


Item	A mm	A	B mm	L mm	
995.6500	12,7 - 50,8	1/2" - 2"	100.0	335.0	1.77

AIR CONDITIONING SPANNER

4in1 Air conditioning ratchet spanner, reversing

- For 3/16", 1/4", 5/16" + 3/8"
- Clockwise and anticlockwise switch
- Special steel



Item	H1 mm	H2 mm	L mm	
130.0122	22.0	22.0	140.0	120

4 in 1 Air conditioning ratchet, reversing

- According to DIN 3120 / ISO 1174
- For square 1/4" + 5/16" on the ratchet head with reversing switch
- For square 8.5, 3/8" + 13.0 mm on the ratchet handle
- For use with stop valves
- Clockwise and anticlockwise switch
- Special steel



Item	H1 mm	H2 mm	L mm	
130.0222	30.0	25.0	157.0	120

Air conditioning spanner set

- Metric sizes
- For all current stop valves
- Ideal set of compilation for air conditioning
- According to DIN 3120 / ISO 1174
- For square 1/4" + 5/16" on the ratchet head with reversing switch
- For square 8.5, 3/8" + 13.0 mm on the ratchet handle
- For use with stop valves
- Clockwise and anticlockwise switch
- Mirror polished
- Special steel



Item	
130.0300 18 pcs Air conditioning spanner set	865

1 x		1/4" - 5/16" - 8.5 - 3/8" - 13 mm
10 x		1/4": 3,4 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10 mm - 1/4"
3 x		1/4": 7 - 8 - 10 mm
1 x		1/4"
1 x		1/4"
1 x		125 mm
1 x		150 mm
1 x		

SANITARY INSTALLATION

Lead seal plier 8 mm

- For Lead seals 8 mm
- Special steel



Item	L mm	
122.9990	130.0	230

Lead seals 8 mm

- Pack of 250 g
- Special steel



Item	Ø mm	
122.9991	8,0	250

Seal wire

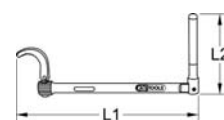
- Gauge 0.5 mm
- Pack of 100 m
- Special steel



Item	L m	
122.9992	100.0	290

Standard tap nut wrench Ø 10 - 32 mm

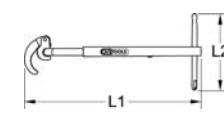
- Pivoting T-handle provides optimum power transfer
- Clockwise and anticlockwise action with swivel lever
- For use in plumbing installation
- Includes attachment on the floor by screwing bolts M10
- Special steel



Item	Ø mm	L1 mm	L2 mm	
125.1000	10,0 - 32,0	275.0	120.0	500

Telescopic standard tap wrench

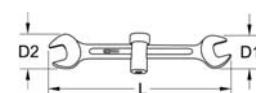
- Pivoting T-handle provides optimum power transfer
- Clockwise and anticlockwise action with swivel lever
- For use in plumbing installation
- Pull out 3 stage telescopic adjustment
- Chrome plated
- Special steel



Item	Ø mm	L1 mm	L2 mm	
126.1000	10,0 - 32,0	275,0 - 455,0	150,0	670
126.2000	32,0 - 63,0	275,0 - 455,0	155,0	830

Plumbing special spanner, 17 x 19 mm

- Ideal for inaccessible areas
- For use in plumbing installation
- Quick mounting of fixtures and vanity angle valves
- Includes attachment for screwing bolts M10 on the floor in the middle section
- A longer lever arm by sliding the middle piece of the wrench
- Special steel



Item	L mm	D1 mm	D2 mm	
116.5000	220.0	17.0	19.0	250

Plumbing special spanner, 17 x 19 mm

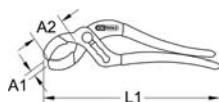
- Ideal for inaccessible areas
- For use in plumbing installation
- Jaw size SW 19 mm, straight
- Ring ratchet size SW 17 mm, slightly offset, and reversible
- Includes attachment for screwing bolts M10 on the floor of middle section with integrated ball seat for easy release of the hanger bolt
- Special steel



Item	L mm	D1 mm	D2 mm	
116.5010	250.0	17.0	19.0	390

Siphon pliers

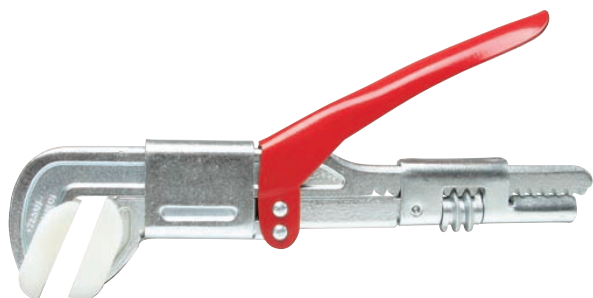
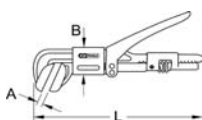
- With 4 adjustable steps
- Insulated foot for chrome fittings
- For screw fittings up to max. Ø 60 mm
- With PVC dipped handle
- For loosening pipe fittings
- Interchangeable jaw protector
- For hard to reach places
- Chrome plated and mirror polished
- Chrome vanadium



Item	A1 mm	A2 mm	L mm	Replacement jaws	
116.1200	0 - 100	45.0	225.0	116.1201	320

Fitters wrench

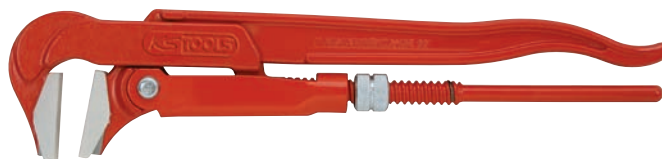
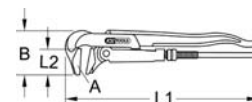
- Interchangeable jaw protector
- For screw fittings up to max. Ø 60 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Matt chrome
- Chrome vanadium



Item	A mm	B mm	L mm	Replacement jaws	
116.1002	0 - 60.0	47.0	265.0	116.1003	550

Fitters pliers, angled

- 90° Jaw position
- Interchangeable jaw protector
- For pipe up to max. Ø 35 mm
- For mild assembly
- Infinitely variable
- Red powder coating
- Chrome vanadium



Item	A	A mm	B mm	L1 mm	L2 mm	Replacement jaws	
116.1000	1"	25.4	81.0	315.0	54.0	116.1001	790

Universal step key set 3/8" - 1"

- Step key 4 stages 3/8", 1/2", 3/4" + 1"
- Special steel



Item				
130.3000	2 pcs	Universal step key set 3/8" - 1"		610
1 x		1/2"		
1 x		3/8" - 1"		

Universal step key set 7/8" - 3/8"

- Step key 8 stages 7/8", 27/32", 3/4", 35/65", 1/2", 15/32", 7/16" + 3/8"
- Step key with a screwdriver tip 9,0 x 1,5 mm
- Special steel



Item				
130.3020	2 pcs	Universal step key set 7/8" - 3/8"		630
1 x		1/2"		
1 x		7/8" - 3/8"		

Gas step key set 3/8" - 1"

- Step key 4 stages 3/8", 1/2", 3/4" + 1"
- Gas step key 3 stages 3/8", 1/2", 3/4" + 1"
- Hanger bolt assembly 4 way key M6, M8, M10 + M12
- Special steel



Item				
130.3500	3 pcs	Gas step key set 3/8" - 1"		760
1 x		1/2"		
1 x		3/8" - 1"		
1 x		1/2" - 1"		

Ratchet

- Ratchet with 1/2" square drive
- e.g. for tuning the engine crank alignment tool

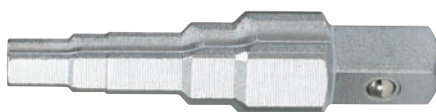


1/2"

Item	L mm	
130.1000	270.0	500

Universal step key, 4 steps

- 4 stages 3/8", 1/2", 3/4" + 1"
- For use with reversing ratchet 130.1000
- Special steel



1/2"

Item	L mm	
130.2000	100.0	110

Step key, 8 steps, with screwdriver blade

- 8 stages 7/8", 27/32", 3/4", 35/65", 1/2", 15/32", 7/16" + 3/8"
- With screwdriver blade
- For use with reversing ratchet 130.1000
- Special steel

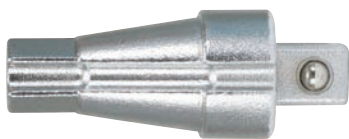


1/2"

Item	L mm	
130.2001	110.0	110

Gas step key, 3 steps

- 3 stages 1/2", 3/4" + 1"
- For use with reversing ratchet 130.1000
- Special steel

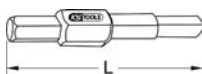


1/2"

Item	L mm	
130.2010	90.0	150

Step key 4 stages

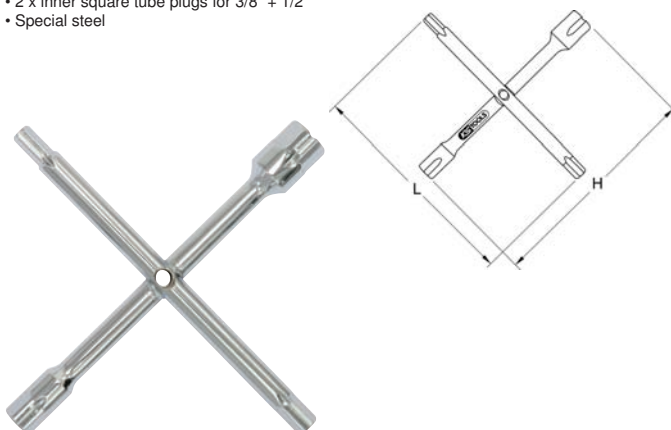
- 4 stages 10, 12, 13 + 17 mm
- Special steel



Item	L mm	
130.6005	100.0	120

Plumbing cross joint wrench

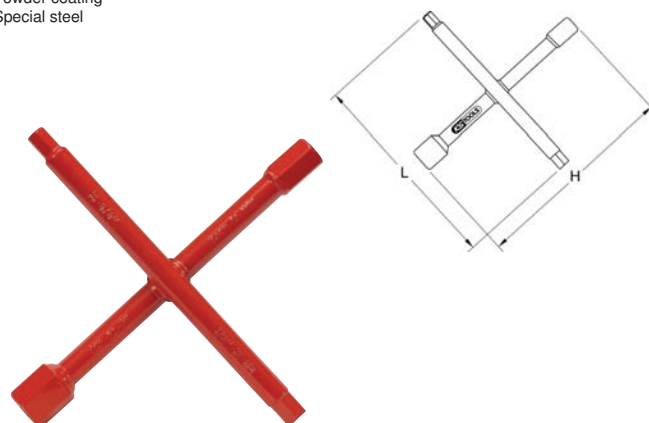
- 10 Function
- 4 x external hexagon 3/8", 1/2", 3/4" + 1" on and dismantling of radiator valves and lockshields
- 4 x internal thread for hanger bolts M6, M8, M10 + M12 for installation and removal of vanity fixtures
- 2 x inner square tube plugs for 3/8" + 1/2"
- Special steel



Item	L mm	H mm	
116.6200	220.0	200.0	500

Plumbing cross joint wrench

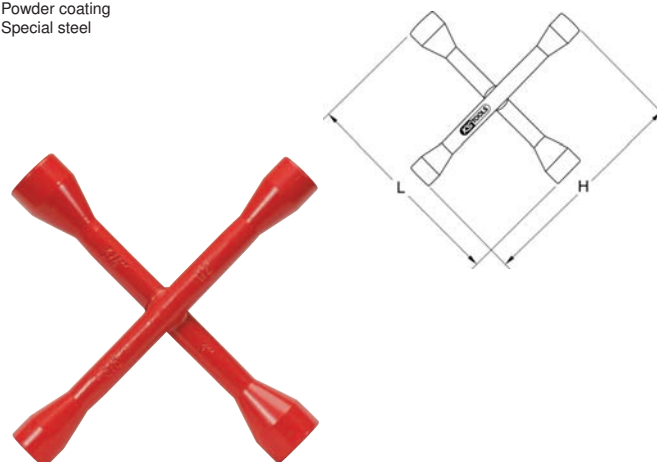
- 7 Function
- 4 x external hexagon 3/8", 1/2", 3/4" + 1" on and dismantling of radiator valves and lockshields
- 3 x internal thread for hanger bolts, M8, M10 +, M12 for vanity fixtures
- Powder coating
- Special steel



Item	L mm	H mm	
116.6000	200.0	200.0	500

Gas pipe step key

- 4 Function
- On and boring of tube plugs 3/8", 1/2", 3/4" + 1"
- Powder coating
- Special steel



Item	L mm	H mm	
116.6100	200.0	220.0	780

WC Plumbing combination kit

- Special configuration for the disassembly and assembly of toilet seats
- In durable plastic storage case



Item				kg	
116.2095	3 pcs	WC Plumbing combination kit		0.81	
1 x		13 x 125 mm			
1 x		10 mm			
1 x		1/4"			

WC Plumbing combination kit

- Special configuration for the disassembly and assembly of toilet seats
- In durable plastic storage case



Item				kg	
116.2080	6 pcs	WC Plumbing combination kit		1.30	
1 x		1/2"			
2 x		M8 - M10			
1 x		13 x 155 mm			
1 x		13 mm			
1 x		1/4" - 1/2"			

Washbasin mouting set

- Optimum working for disassembly and assembly of washbasins and wall fixtures
- Ideal for confined spaces
- Handy, multifunctional power tool
- In durable plastic storage case



Item				kg	
116.2050	6 pcs	Washbasin mouting set		1.40	
1 x		M8 / M10			
3 x		9 x 185 mm - 10 x 185 mm - 13 x 185 mm			
1 x					
1 x		3/4"			

Sanitary mouting set

- Optimum working for disassembly and assembly of washbasins and wall fixtures
- Ideal for confined spaces
- Handy, multifunctional power tool
- In durable plastic storage case



Item				kg	
116.2015	10 pcs	Sanitary mouting set		2.76	
1 x		M8/M10			
5 x		9 - 10 - 11 - 12 - 13 mm			
1 x		92 mm			
1 x		40 mm			
1 x		1/2"			
1 x		10 x 19 mm - 13 x 17 mm			

Sanitary mouting combination set

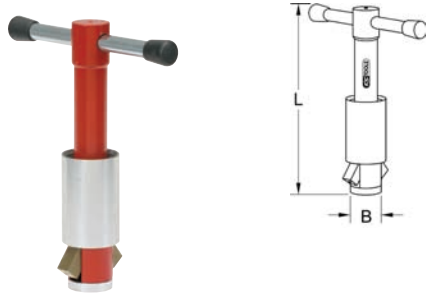
- Optimum working for disassembly and assembly of washbasins and wall fixtures
- Ideal for confined spaces
- Handy, multifunctional power tool
- Easy entry and unscrewing from 1/2" spigot extensions in plumbing assembly
- Wall mounted models are milled valve extensions
- Connection valves also in inaccessible areas and with a thread
- Work on damage drain valves
- In durable plastic storage case



Item				kg	
116.2020	23 pcs	Sanitary mouting combination set		7.33	
1 x		M8/M10			
5 x		9 - 10 - 11 - 12 - 13 mm			
1 x		92 mm			
1 x		1/4": 10 mm			
1 x		40 mm			
1 x		1/2"			
1 x					
1 x		3 - 16 mm			
1 x		250 mm			
1 x		225 mm			
1 x		32,5 mm			
1 x		1/2"			
1 x		3/8" - 1/2" - 3/4" - 1"			
1 x		1/2"			
1 x					
1 x		Ø 80 mm			
1 x		10 x 19 mm - 13 x 17 mm			
1 x		1/4": 190 mm			
1 x		1/2": 12 mm			

Valve fix

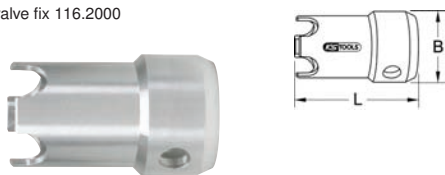
- Holder and boring tools for the eccentric and standard flush valves
- Can be used from above and below
- Quick and easy work for the assembly of bathtubs, sinks and washbasins
- Special steel



Item	B mm	L mm	Weight g
116.2000	35.0	161.0	300

Bath adapter for valve fix

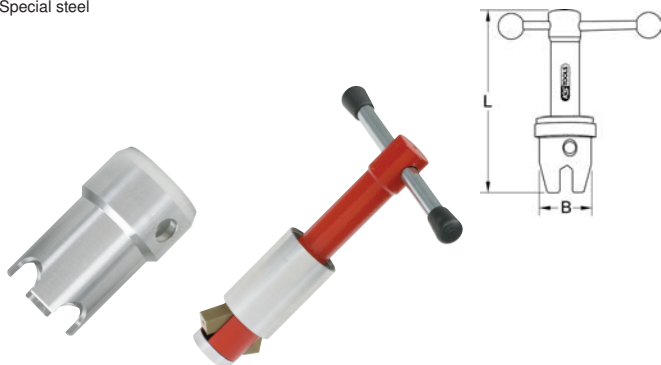
- For use on bath tub valves to valve fix 116.2000
- Special steel



Item	L mm	B mm	Weight g
116.2001	53.0	45.0	110

Valve fix and bath adaptors

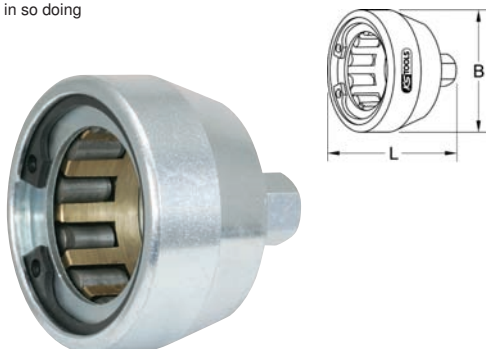
- Holder and boring tools for the eccentric and standard flush valves
- Quick and easy work for the assembly of bathtubs, sinks and washbasins
- Special steel



Item	B mm	L mm	Weight g
116.2002	50.0	120.0	410

Mounting attachment for eccentric wrench

- Shaped in the key core then wedged in and then releasing on the thread and push it in so doing
- Special steel



Item	B mm	L mm	Weight g
116.2065	40.0	40.0	300

Assembly tool for drain valves

- Work on damage drain valves



Item	B mm	L mm	Weight g
116.2060	35.0	92.0	150

Key for toilet set fitting

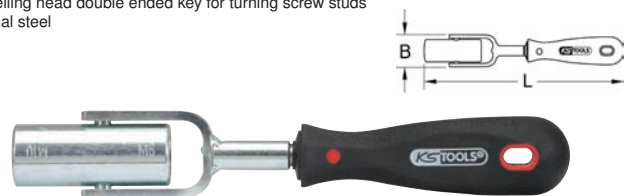
- With hexagonal drive 13
- For different types of wing nuts on toilet seats fixings
- Special steel



Item	L mm	Weight g
116.2097	110.0	60

Universal stock screw key drive tool

- M8 / M10
- Swivelling head double ended key for turning screw studs
- Special steel



Item	B mm	L mm	Weight g
116.2051	35.0	220.0	320

Handle, flexible

- With external square drive to DIN 3120 / ISO 1174
- 180° Swivel universal joint
- Special steel

1/2"



Item	L mm	Weight g
116.2081	165.0	150

Assembly tool for drain valves

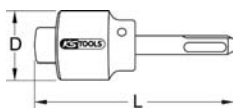
- Work on damage drain valves



Item	Ø mm	mm	mm	B mm	L mm	Weight g
116.2054	11,0	10,0		10.5	185.0	120
116.2055	9,0	10,0		10.5	185.0	100
116.2056	10,0	10,0		14.0	185.0	110
116.2057	12,0	10,0		15.0	185.0	130
116.2059	13,0	10,0		15.0	185.0	130
116.2089	9,0	10,0		10.5	165.0	60
116.2090	10,0	10,0		10.5	165.0	70
116.2091	11,0	10,0		15.0	165.0	120
116.2092	12,0	10,0		15.0	165.0	120
116.2093	13,0	10,0		15.0	165.0	120
116.2096	13,0	10,0	1/4"	14.2	155.0	130

Valve extension mills

- With SDS adaptor
- With swarf catcher
- Wall mounted models for milling of valve extensions
- With special carbide tipped cutting edge
- Optimized centering of the cylindrical tower in front of the cutter
- Special steel

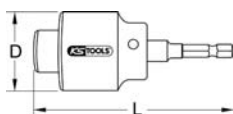


1/2"

Item	D mm	L mm	kg
116.2036	36.0	100.0	170

Valve extension mills

- With 1/4" 6 point adaptor
- With swarf catcher
- Wall mounted models for milling of valve extensions
- With special carbide tipped cutting edge
- Optimized centering of the cylindrical tower in front of the cutter
- Special steel



1/2"

Item	D mm	L mm	kg
116.2037	36.0	91.5	170

Radiator nipple wrench

- Tools for mounting of radiators for nipples 1" and 1.1/4", with 18 mm square drive
- Special steel



Item	Ø	mm	L mm	kg
131.0500	1"	18.0	500.0	0.75
131.0800	1"	18.0	800.0	1.10
131.1000	1"	18.0	1000.0	1.45
132.0500	1.1/4"	18.0	500.0	1.30
132.0800	1.1/4"	18.0	800.0	1.50

Radiator tap wrench

- Tools for mounting of radiators for nipples 1" and 1.1/4", with 18 mm square drive
- Soft grip handle
- Special steel



Item	mm	L mm	kg
131.0001	18,0	500.0	1.67

Tools for mounting of radiators for nipples 1" und 1.1/4", with 18 mm square drive

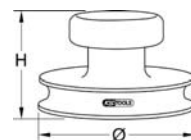
- Tools for mounting of radiators for nipples 1" und 1.1/4", with 18 mm square drive
- Soft grip handle
- Special steel



Item	mm	L mm	kg
131.0002	18,0	500.0	1.67

Mini vacuum suction cup

- For lifting, carrying and holding
- For flat and non porous surfaces
- Max. 15 kg carrying capacity - perpendicular to sucker
- Suitable for adjusting and insertion of shower trays
- Solid rubber



Item	Ø mm	H mm	kg
140.1004	80,0	55.0	100

One handed mini suction cup

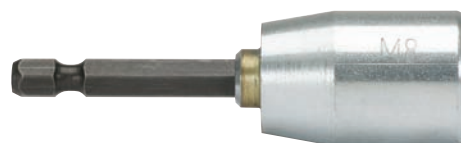
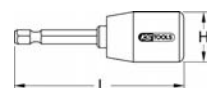
- Convenient one handed operation by lever
- Lifting, carrying and holding
- Special plastic



Item	Ø mm	H mm	L mm	kg
140.1015	70,0	92.0	115.0	30

Stud screwdriver, magnetic

- Magnetic stud screwdriver with 1/4" bit holder for screwdriver
- For a damage free entry and boring of the stud
- Special steel



1/4"

Item		L mm	H mm		
122.3006	M6	88.0	21.0	80	
122.3008	M8	80.0	24.0	100	
122.3010	M10	88.0	26.0	120	
122.3012	M12	76.0	26.0	140	

Stud screw key with SDS adaptor

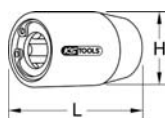
- Stud screw key for machinery with SDS adaptor
- For a damage free entry and boring of the stud
- Special steel



Item		L mm	H mm	
122.3016	M6	76.0	21.0	90
122.3018	M8	81.0	23.0	120
122.3020	M10	99.0	26.0	150
122.3022	M12	101.0	29.0	180

Stud screwdriver

- Stud screwdriver with 1/2" square drive for special adaptor
- For a damage free entry and boring of the stud
- Special steel



1/2"

Item		L mm	H mm	
116.2086	M8	35.0	23.0	70
116.2087	M10	43.0	25.0	100
116.2088	M12	48.0	31.0	130

Special adaptor, magnetic

- Magnetic 1/2" special adaptor for stud screwdriver with 1/4" bit holder for screwdrivers
- Special steel

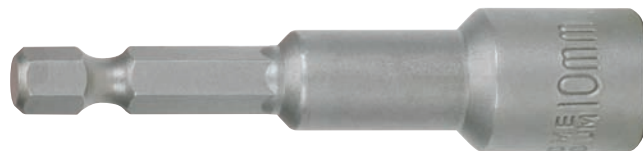


1/2"

Item	L mm	
514.1135	72.0	60

CLASSIC Drive socket, magnetic

- Magnetic
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with and electric screwdriver
- For a damage free inserting boring and unscrewing bolts
- Ideally suited for fittings in trade and industry
- Sand blasted
- Special steel

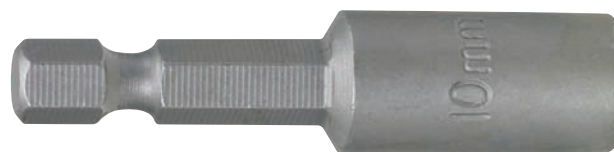


1/4"

Item	mm	L mm	H mm	
122.2101	7.0	60.0	8.0	30
122.2102	8.0	60.0	12.0	30
122.2103	10.0	60.0	15.0	40
122.2104	13.0	60.0	18.0	50

CLASSIC Stud screwdriver

- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with and electric screwdriver
- For a damage free inserting and unscrewing bolts from floor
- Ideally suited for fittings in trade and industry
- Sand blasted
- Special steel

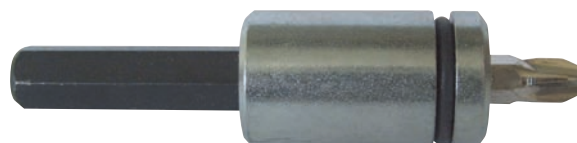


1/4"

Item		L mm	H mm	
122.2105	M6	50.0	12.0	20
122.2106	M8	50.0	12.0	20
122.2107	M10	50.0	12.0	20
122.2108	M12	50.0	14.0	20

Pipe clamp fitting tool

- Holder for stud screws M8 and 1/4" bits
- Ideal for gas, water and electrical installation
- No screw bit changing
- 6 point 1/4" adaptor can be mounted in the chuck
- Special steel



Item	D mm	L mm	
116.2012	20.0	70.0	100



CLASSIC Bit and drive socket set

- Ideal set of compilation for plumbing heating and air conditioning
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with and electric screwdriver
- Ideally suited for fittings in trade and industry
- Includes magnetic drive sockets and stud screwdrivers for a damage free inserting boring and unscrewing bolts and stud bolts
- Orderly arrangement of the popular 1/4" bits and drive sockets
- Sand blasted
- Special steel
- In durable plastic storage case



1/4"

Item			
122.2100	31 pcs	CLASSIC Bit and drive socket set	670

4 x		7 - 8 - 10 - 13 mm
4 x		M6 - M8 - M10 - M12
1 x		50 mm
5 x	 	PH1 - 3 x PH2 - PH3
5 x	 	PZ1 - 3 x PZ2 - PZ3
2 x	 	5,5 - 6,5 mm
3 x	 	4 - 5 - 6 mm
7 x	 	T10 - T15 - T20 - T25 - T27 - T30 - T40

CLASSIC Bit and drive socket display

- Ideal set of compilation for plumbing heating and air conditioning
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with and electric screwdriver
- Ideally suited for fittings in trade and industry
- Includes magnetic drive sockets and stud screwdrivers for a damage free inserting boring and unscrewing bolts and stud bolts
- Orderly arrangement of the popular 1/4" bits and drive sockets
- Special steel
- Supplied in counter sales display



1/4"

Item					
122.2100D	10 pcs	10 x 122.2100	7.00		

ULTIMATEplus Double box head spanner set

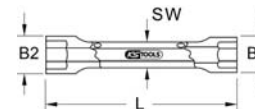
- FlankTraction profile (12 point)
- DIN 896 form A / ISO 2236
- Extremely versatile
- With centre hole
- Can use a ring spanner to drive
- Matt finish
- Chrome vanadium



Item					
518.0405	10 pcs	ULTIMATE <i>plus</i> Double box head spanner set		1.16	
8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm			
2 x		#1 100 mm + #2 170 mm			

ULTIMATEplus Double box spanner

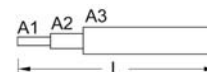
- FlankTraction profile (12 point)
- DIN 896 form A / ISO 2236
- Extremely versatile
- With centre hole
- Can use a ring spanner to drive
- Matt finish
- Chrome vanadium



Item	mm	B1 mm	B2 mm	SW mm	L mm			
518.0406	6x7	9.0	10.0	8.0	100.0	1	27	
518.0408	8x9	11.5	12.5	9.0	110.0	1	43	
518.0410	10x11	14.0	15.0	11.0	120.0	1	63	
518.0412	12x13	16.5	17.5	13.0	130.0	2	96	
518.0414	14x15	19.5	20.0	14.0	140.0	2	132	
518.0416	16x17	21.0	22.0	16.0	150.0	2	155	
518.0418	18x19	23.0	24.0	18.0	160.0	2	187	
518.0420	20x22	26.0	28.0	20.0	170.0	2	275	
518.0421	21x23	27.0	29.0	21.0	180.0	2	310	
518.0424	24x26	30.0	32.0	24.0	190.0	3	365	
518.0425	25x28	31.0	34.0	25.0	200.0	3	410	
518.0427	27x29	34.0	36.0	27.0	210.0	3	540	
518.0430	30x32	37.0	39.0	30.0	220.0	3	610	

Tommy bar for double box spanner

- Hardened
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	A3 mm	L mm	#		
518.0450	6x7-10x11	2.6	5.0	5.0	100.0	1	10	
518.0455	12x13-21x23	5.9	7.0	9.3	170.0	2	80	
518.0460	24x26-30x32	11.6	12.5	12.5	290.0	3	280	

Air conditioning combination tool set

- For optimal use in refrigeration and air conditioning installation
- Supplied in durable ABS storage case



Item			kg
116.0175	102 pcs	Air conditioning combination tool set	14.41
1 x		3 - 16 mm	
1 x		6 - 38 mm	
1 x		3 - 42 mm / 6 - 42 mm	
1 x			
1 x		6" (150 mm)	
1 x		160 mm	
1 x		6 - 8 - 10 - 12 - 15 - 16 mm	
1 x		3/16" - 1/4" - 5/16" - 3/8"	
1 x		19 mm x 10 m	
1 x		200 g	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		2 - 3 - 4 - 5 - 6 - 8 mm	
1 x		6 x 38 mm	
2 x		PH2 x 38 mm - PZ2 x 38 mm	
3 x		10 - 12 - 16 mm	
1 x		3 m x 25 mm	
7 x		7 - 8 - 9 - 10 - 13 - 17 - 19 mm	
10 x		6 x 7 - 9 x 8 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 27 - 30 x 32 mm	
3 x		8" x 200 mm - 10" x 250 mm - 12" x 300 mm	
1 x		460 x 130 x 180 mm	
1 x		8 - 28 mm	
1 x		310	
12 x		310	
1 x		310	

Premium plumbing tool set

- For optimal use in plumbing installation
- Supplied in multi pocket tool case



Item			kg
116.0190	120 pcs	Premium plumbing tool set	15.88
1 x		3 - 22 mm	
1 x		6 - 38 mm	
1 x		1"	
1 x		1"	
1 x		17 x 19 mm	
1 x		10"	
1 x		1/4"	
1 x		10 - 32 mm	
1 x		3/8" - 1/2" - 3/4" - 1"	
1 x		1500 g	
1 x		50 mm x 50 mm	
1 x		300 g	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		9,5 x 120 mm	
1 x		16 x 400 mm	
1 x		16 x 250 mm	
1 x		500 mm	
1 x		5 m x 25 mm	
1 x		PH 00 x 2,0 - PH 0 x 2,4 - PH 1 x 3,0 - 1,4 - 2,0 - 2,5 - 3,0 mm	
1 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
1 x		8", 200 mm	
1 x		280 x 425 x 240 mm	
1 x		1/4", 200 mm	
1 x		PZ 1 - PZ 2 - PZ 3 - 4 - 5 - 6 mm	
1 x		3 mm	
1 x		#2	

Basic plumbing tool set

- For optimal use in the plumbing sector
- In durable leather tool case



Item			kg
116.0185	34 pcs	Basic plumbing tool set	11.21
1 x		3 - 16 mm	
1 x		6 - 38 mm	
2 x		1" - 1.1/2"	
1 x		160 mm	
1 x		10"	
1 x			
1 x		17 x 19 mm	
1 x		10 - 32 mm	
1 x		3/8" - 1/2" - 3/4" - 1/2"	
1 x		300 g	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		16 x 300 mm	
1 x		2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
4 x		3 x 75 mm - 4 x 100 mm - 5,5 x 125 mm - 6,5 x 150 mm	
2 x		PH 1 x 75 mm - PH 2 x 100 mm	
1 x		290 mm	
1 x			
1 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
1 x		420 x 150 x 250 mm	
1 x		3 mm	
1 x			

Basic plumbing tool set

- For optimal use in the plumbing sector
- In durable metal tool box



Item			kg
116.0186	34 pcs	Basic plumbing tool set	12.16
1 x		3 - 16 mm	
1 x		6 - 38 mm	
2 x		1" - 1.1/2"	
1 x		160 mm	
1 x		10"	
1 x			
1 x		17 x 19 mm	
1 x		10 - 32 mm	
1 x		3/8" - 1"	
1 x		300 g	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		16 mm x 300 mm	
1 x		2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
4 x		3 - 4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	
1 x			
1 x			
1 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
1 x			
1 x		3 mm	
1 x			

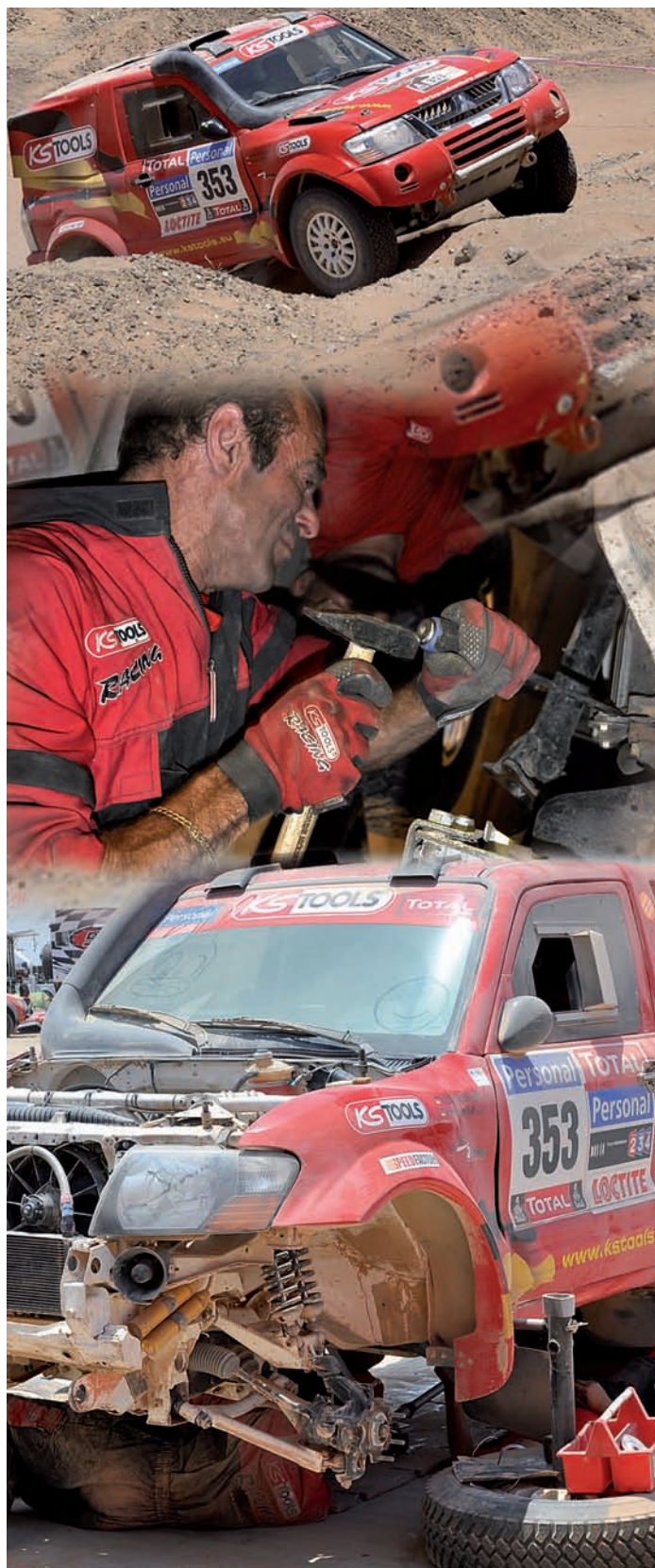
Premium plumbing tool set

- For optimal use in plumbing for sanitary assembly
- In durable leather tool case



1 x		
1 x		
1 x		
1 x		1/4"
1 x		3 mm
1 x		
1 x		# 2

Item			
116.0195	116 pcs	Premium plumbing tool set	16.40
1 x		3 - 16 mm	
1 x		6 - 38 mm	
1 x		1"	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		1"	
1 x			
1 x			
1 x		17 x 19 mm	
1 x		10"	
1 x		1/4"	
1 x		10 - 32 mm	
1 x		3/8" - 1/2" - 3/4" - 1"	
1 x		500 g	
1 x		1250 g	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		6 x 115 mm	
1 x		16 x 130 mm	
1 x		16 x 250 mm	
3 x		4 x 100 - 5,5 x 150 - 6,5 x 150 mm	
3 x		PH 1 x 75 - PH 2 x 100 - PH 3 x 150 mm	
1 x		400 mm	
1 x		5 m x 25 mm	
1 x			
1 x		T6 - T7 - T8 - T9 - T10 - T15 - T20	
11 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
1 x		10", 250 mm	
1 x		450 x 190 x 340 mm	



Premium plumbing tool set

- For optimal use in plumbing for sanitary assembly
- In durable metal tool box



Item				
116.0196	116 pcs	Premium plumbing tool set	18.40	
1 x		3 - 16 mm		
1 x		6 - 38 mm		
1 x		1"		
1 x		180 mm		
1 x		200 mm		
1 x		10"		
1 x		1"		
1 x				
1 x				
1 x		17 x 19 mm		
1 x		10"		
1 x		1/4"		
1 x		10 - 32 mm		
1 x		3/8" - 1"		
1 x		630 g		
1 x		1000 g		
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm		
1 x		16 mm x 250 mm		
1 x		16 mm x 250 mm		
3 x		4,0 - 5,5 - 6,5 mm		
3 x		PH 1 - PH 2 - PH 3		
1 x		100 mm		
1 x		400 mm		
1 x		5 m x 25 mm		
1 x				
1 x		T6 - T7 - T8 - T9 - T10 - T15 - T20		
1 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm		
1 x		12", 300 mm		
1 x				

1 x		
1 x		
1 x		
1 x		3 mm
1 x		
1 x		# 2

Sealfix set

- For building sealants and expansion joints with silicone, acrylic, polyurethane, etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Plastic
- In durable plastic storage case



Item				
116.1010	3 pcs	Sealfix set	100	

Sealfix advanced set

- For building sealants and expansion joints with silicone, acrylic, polyurethane, etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Tip slides allow easy traverse ready produced seams
- Plastic
- In durable plastic storage case



Item				
116.1020	6 pcs	Sealfix advanced set	150	

Tap seating milling set 3/8" - 1"

- For accurate milling when the valve seats cause leaking taps
- Adjustable via spring milling head and regulation screw
- Fits all standard threaded fittings by graded cylindrical which is included
- Interchangeable cutter
- In durable metal storage case



Item				
136.1100	6 pcs	Tap seating milling set 3/8" - 1"	870	
1 x				
5 x		1/4" x 12 mm - 3/8" x 14 mm - 1/2" x 17 mm - 3/4" x 124 mm - 1" x 28 mm		

Tap seating milling set 1/4" - 1"

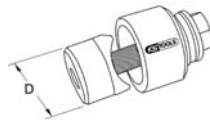
- For accurate milling when the valve seats cause leaking taps
- Adjustable via spring milling head and regulation screw
- Fits all standard threaded fittings by graded cylindrical which is included
- Interchangeable cutter
- In durable plastic storage case



Item					
136.1105	6 pcs	Tap seating milling set 1/4" - 1"	870		
1 x					
5 x		1/4" x 12 mm - 3/8" x 14 mm - 1/2" x 17 mm - 3/4" x 24 mm 1" x 28 mm			

Screw hole punch

- With 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel



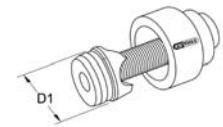
Ideally usable in V2A sheet to 1.5 mm, aluminum, copper, steel as well as stainless steel and plastics. The sheet metal thicknesses can be exceeded at the expense of screw. Especially suited for burr free, clean, effortless and fast punching.



Item	D mm	Standard	Tension screw	Tapping hole	
129.0012	12.5	ISO 12	129.0001	9	72
129.0013	12.7	PG7	129.0001	9	73
129.0015	15.2	PG 9	129.0001	9	94
129.0016	16.5	ISO 16	129.0001	9	96
129.0018	18.6	PG 11	129.0001	9	112
129.0020	20.4	PG 13	129.0002	13	160
129.0021	20.5	ISO 20	129.0002	13	161
129.0022	22.5	PG 16	129.0002	13	164
129.0025	25.4	ISO 12	129.0002	13	185
129.0026	25.5	ISO 25	129.0002	13	186
129.0028	28.3	PG 21	129.0002	13	212
129.0030	30.5	ISO 12	129.0002	13	250
129.0032	32.5	ISO 32	129.0002	13	252
129.0035	35.0	ISO 12	129.0002	13	378
129.0037	37.0	PG 29	129.0002	13	380
129.0038	38.0	ISO 12	129.0002	13	394
129.0040	40.5	ISO 40	129.0002	13	398
129.0047	47.0	PG 36	129.0003	18	834
129.0050	50.5	ISO 50	129.0003	18	768
129.0054	54.0	PG 42	129.0003	18	964
129.0060	60.0	PG 48	129.0004	22	1052
129.0063	63.5	ISO 63	129.0004	22	1126
129.0075	75.0	ISO 75	129.0004	22	1238
129.0076	76.2	ISO 12	129.0004	22	1296
129.0080	80.0	ISO 80	129.0004	22	1352

Screw hole punch with chip break

- With 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel



Ideally usable in V2A sheet up to 1.5 mm aluminium, copper sheet metal and iron sheet metal to 2.0 mm as well as stainless steel and plastics. The sheet metal thicknesses can be exceeded at the expense of screw. Especially suited for burr free clean, effortless and fast punching.

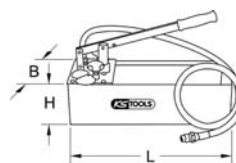


Item	D mm	Standard	Tension screw	Tapping hole	
129.0204	16.5	ISO 16	129.0001	9	125
129.0205	18.6	PG 11	129.0001	9	145
129.0206	20.4	PG 13	129.0002	13	170
129.0207	20.5	ISO 20	129.0002	13	170
129.0208	22.5	PG 16	129.0002	13	190
129.0209	25.4	ISO 12	129.0002	13	200
129.0210	25.5	ISO 25	129.0002	13	200
129.0211	28.3	PG 21	129.0002	13	310
129.0212	30.5	ISO 12	129.0002	13	340
129.0213	32.5	ISO 32	129.0002	13	345
129.0214	35.0	ISO 35	129.0002	13	480



Pressure test pump

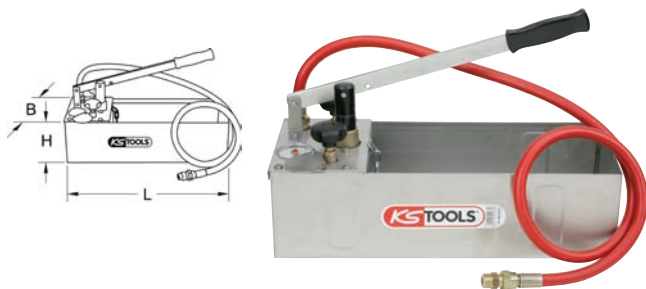
- Operating pressure max. 60 bar
- Tank capacity 12 litre's
- 2 lock valves
- Low lying pressure gauge with protective cover
- Pump lever with a locking chain
- Inclusive 1.5 m high pressure hose with steel mesh reinforcement and 1/2" connector
- Red powder coating
- Monobloc version
- Body made of brass



Item	B mm	H mm	L mm	
902.1004	195.0	222.0	505.0	7.00

Stainless steel pressure test pump

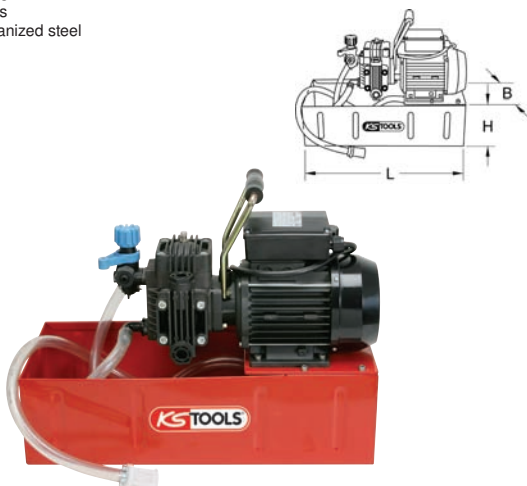
- Operating pressure max. 60 bar
- Tank capacity 12 litre's
- 2 lock valves
- Low lying pressure gauge with protective cover
- Pump lever with a locking chain
- Inclusive 1.5 m high pressure hose with steel mesh reinforcement and 1/2" connector
- Monobloc version
- Stainless steel body



Item	B mm	H mm	L mm	kg
902.2004	195.0	222.0	505.0	6.70

Electric pressure test pump

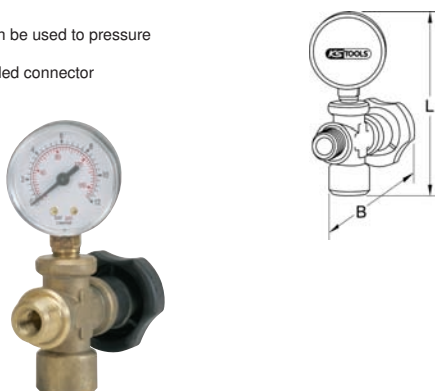
- Operating pressure max. 20 bar
- Tank capacity 12 litre's
- Flow rate: 13.5 l/ min
- Power 600W
- Rotational speed 1,400 rpm
- 220V power supply
- For using to test closed fluid systems
- Inclusive 1.5 m high pressure hose with 1/2" connector
- Red powder coating
- Brass piston pumps
- Tank made of galvanized steel



Item	B mm	H mm	L mm	kg
902.3004	195.0	222.0	505.0	16.90

Auxiliary gauge

- Max. 12 bar
- By using the auxiliary gauge can be used to pressure test pump for further tests
- 1/2" Internal and external threaded connector
- Special steel



Item	B mm	L mm	kg
902.1005	63.0	226.0	600

Radiator transport trolley

- Practical transport trolley to transport radiators
- With automatic brake
- Max. payload: 150 kg
- Max. height 370 mm
- Special steel



Item	B mm	L1 mm	L2 mm	L3 mm	kg
160.0230	610.0	980.0	420.0	195.0	30.00

Boiler transport trolley

- Practical transport trolley for transporting of domestic boilers and water heaters
- Max. payload: 150 kg
- Max. height 1.680 mm
- Special steel



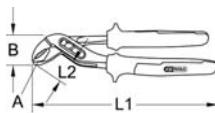
Item	B mm	L1 mm	L2 mm	L3 mm	kg
160.0235	590.0	1350.0	460.0	430.0	40.00



PLIERS

Water pump pliers

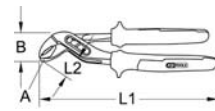
- In accordance to DIN 8976
- Toothed gripping surfaces
- Optimum power transfer
- Industrial and ground heads
- Red powder coating
- Chrome vanadium



Item	A	B mm	L1 mm	L2 mm	kg
115.1000	1"	30.0	175.0	30.0	160
115.2000	1.1/4"	35.0	240.0	36.0	310
115.3000	1.1/2"	40.0	300.0	42.0	620

Water pump pliers

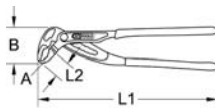
- In accordance to DIN 8976
- With PVC dipped handle
- Toothed gripping surfaces
- Optimum power transfer
- Industrial and ground heads
- Chrome vanadium



Item	A mm	B mm	L1 mm	L2 mm	kg
115.2001	36.0	46.0	240.0	34.0	330
115.4000	70.0	84.0	400.0	60.0	1300

Water pump pliers

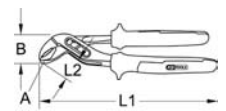
- With accurate industrial adjustment
- With safety clamping protection
- Optimum power transfer
- Double sided gripping jaws
- Ground heads
- With PVC dipped handle
- Chrome vanadium



Item	A mm	B mm	L1 mm	L2 mm	kg
115.8502	36.0	44.0	175.0	26.5	185
115.8000	51.0	54.0	250.0	33.5	340
115.8500	61.5	65.0	300.0	41.5	510

Water pump pliers, black

- In accordance to DIN 8976
- With PVC dipped handle
- Toothed gripping surfaces
- Optimum power transfer
- With grooved handle adjustment
- Chrome vanadium



Item	A mm	B mm	L1 mm	L2 mm	kg
115.7000	45.0	55.0	250.0	40.0	340

Water pump plier set

- In accordance to DIN 8976
- Toothed gripping surfaces
- Optimum power transfer
- 7 stage adjustment
- Industrial and ground heads
- Red powder coating
- Chrome vanadium



Item	kg
115.0000 3 pcs Water pump plier set	1.20

3 x  7" - 10" - 12"

Water pump plier set

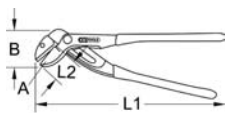
- With accurate industrial adjustment
- With safety clamping protection
- Optimum power transfer
- Double sided gripping jaws
- Ground heads
- With PVC dipped handle
- Chrome vanadium



Item	kg
115.8501 2 pcs 10" - 12"	960

Fitters pliers

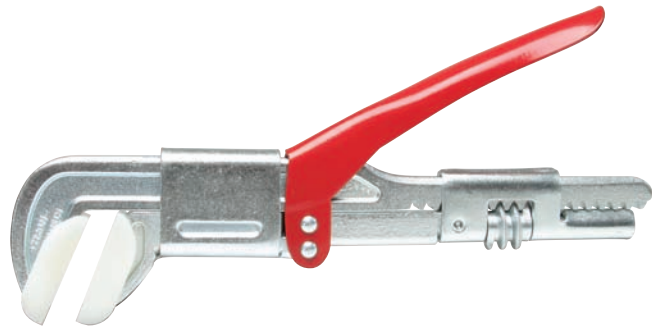
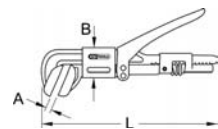
- With accurate industrial adjustment
- With safety clamping protection
- With setting scale
- Smooth, polished head area
- Optimum power transfer
- Ground heads
- With PVC dipped handle
- Chrome vanadium



Item	A mm	B mm	L1 mm	L2 mm	Weight
115.8510	53.0	50.0	250.0	60.0	350

Fitters wrench

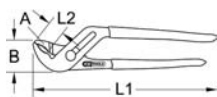
- Interchangeable jaw protector
- For screw fittings up to max. Ø 60 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Matt chrome
- Chrome vanadium



Item	A mm	B mm	L mm	Replacement jaws	Weight
116.1002	0 - 60,0	47.0	265.0	116.1003	550

Professional water pump pliers

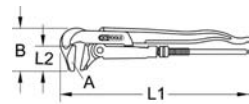
- Toothed gripping surfaces
- Optimum power transfer
- With grooved handle adjustment
- Progressive teeth
- With PVC dipped handle
- Chrome vanadium



Item	Industrial	A mm	B mm	L1 mm	L2 mm	Weight
115.1350	7	46.0	45.0	165.0	50.0	380
115.1351	7	66.0	60.0	330.0	60.0	920
115.1352	11	77.0	74.0	420.0	74.0	1150

Fitters pliers, angled

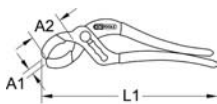
- 90° Jaw position
- Interchangeable jaw protector
- For pipe up to max. Ø 35 mm
- For mild assembly
- Infinitely variable
- Red powder coating
- Chrome vanadium



Item	A	A mm	B mm	L1 mm	L2 mm	Replacement jaws	Weight
116.1000	1"	25.4	81.0	315.0	54.0	116.1001	790

Siphon pliers

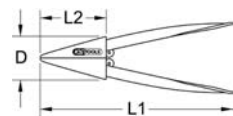
- With 4 adjustable steps
- Insulated foot for chrome fittings
- For screw fittings up to max. Ø 60 mm
- With PVC dipped handle
- For loosening pipe fittings
- Interchangeable jaw protector
- For hard to reach places
- Chrome plated and mirror polished
- Chrome vanadium



Item	A1 mm	A2 mm	L mm	Replacement jaws	Weight
116.1200	0 - 100	45.0	225.0	116.1201	320

Lead pipe expanding pliers

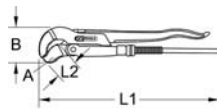
- For the widening of lead pipes up to max. Ø 1.1/2"
- Powder coated
- Body made of sheet steel tongs



Item	Ø mm	Ø	L1 mm	L2 mm	Weight
116.7000	0 - 38,1	1.1/2"	240.0	84.0	360

S Jaw angled pipe plier, offset

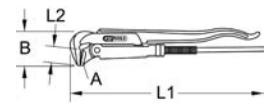
- In accordance to DIN 5234
- Jaw 45° offset
- Ground heads
- Infinitely variable
- Gear, contrary to the direction of rotation
- Red powder coating
- Drop forged
- Chrome vanadium



Item	A	B mm	L1 mm	L2 mm	kg
113.0500	1/2"	48.0	245.0	45.0	0.48
113.1000	1"	95.0	320.0	60.0	0.82
113.1500	1.1/2"	73.0	420.0	73.0	1.40
113.2000	2"	87.0	550.0	87.0	2.57
113.3000	3"	112.0	630.0	112.0	4.30

Offset pipe pliers, 90° angled

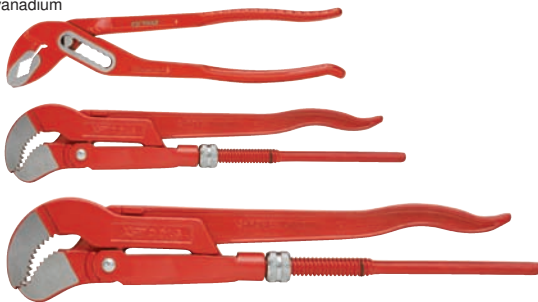
- In accordance to DIN 5234
- Swedish form
- Jaw 90° offset
- Infinitely variable
- Gear, contrary to the direction of rotation
- Red powder coating
- Chrome vanadium



Item	A	B mm	L1 mm	L2 mm	kg
111.1000	1"	35.0	320.0	15.0	0.79
111.1500	1.1/2"	31.0	430.0	41.0	1.40
111.2000	2"	51.0	580.0	58.0	2.69
111.3000	3"	60.0	670.0	62.0	3.45

Plier set

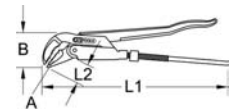
- In accordance to DIN 8976
- Toothed gripping surfaces
- Optimum power transfer
- Water pump plier with 7 stage adjustment
- Industrial and ground heads
- Chrome vanadium



Item		kg
113.2200	3 pcs Plier set	2.53
1 x	 1.1/4"	
2 x	 1.1/2" - 2"	

Offset pipe pliers, 45° angled

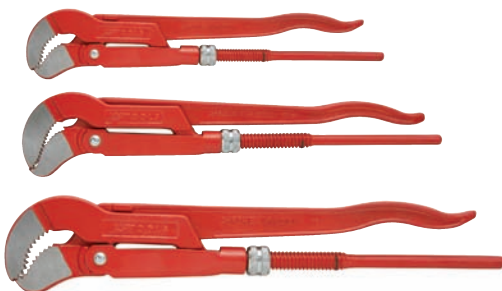
- In accordance to DIN 5234
- Swedish form
- Jaw 45° offset
- Infinitely variable
- Gear, contrary to the direction of rotation
- Red powder coating
- Chrome vanadium



Item	A	B mm	L1 mm	L2 mm	kg
112.1000	1"	65.0	320.0	65.0	0.75
112.1500	1.1/2"	70.0	430.0	75.0	1.38
112.2000	2"	75.0	580.0	85.0	2.75

Angled pipe plier set

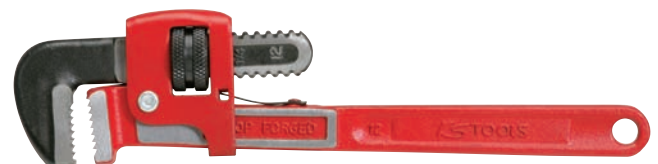
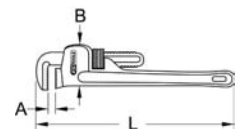
- With PVC dipped handle
- Toothed gripping surfaces
- Optimum power transfer
- With grooved handle adjustment
- Progressive teeth
- Chrome vanadium



Item		kg
113.2100	3 pcs Angled pipe plier set	4.79
3 x	 1" - 1.1/2" - 2"	

One handed pipe pliers

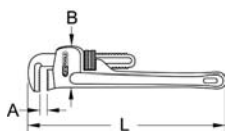
- Type „Stillson“
- Heavy execution
- Ground heads
- Infinitely variable
- Drop forged



Item	A	B mm	L mm	kg
114.0008	3/4"	50.0	200.0	0.25
114.0010	1"	64.0	250.0	0.60
114.0012	1.1/4"	68.0	300.0	0.70
114.0014	1.1/2"	82.0	350.0	1.10
114.0018	2"	93.0	450.0	1.75
114.0024	2.1/2"	111.0	600.0	3.50
114.0036	3.1/2"	134.0	900.0	6.25

One handed pipe pliers

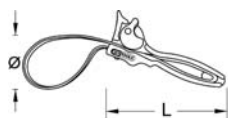
- Type „Stillson“
- Aluminium cast body
- Ground heads
- Infinitely variable
- Drop forged
- Aluminium forged



Item	A	B mm	L mm	kg
111.3100	2"	75.0	350.0	0.88
111.3200	2.1/2"	90.0	450.0	1.46
111.3300	3.1/2"	100.0	600.0	2.44

Strap pipe pliers

- For hard to reach places
- Especially suited for plastic pipes
- Glass fibre reinforced handle
- Belt made of reinforced, non slip rubber



Item	Ø mm	L mm	kg
114.0150	0 - 110,0	190.0	180

VICES & SPIRIT LEVELS

Pipe vice

- Hinged
- Special steel



Item	Clamping range mm	Clamping range	kg
914.0010	10,0 - 60,0	1/8" - 2"	6.88
914.0011	10,0 - 89,0	1/8" - 3"	6.88

Chain pipe vice

- Hinged
- V shaped pipe rest with teeth
- Interchangeable jaws
- Special steel



Item	Clamping range mm	Clamping range	kg
914.0012	10,0 - 76,0	1/8" - 2.1/2"	1.90
914.0014	10,0 - 114,0	1/8" - 4"	4.50
914.0016	10,0 - 165,0	1/8" - 6"	8.50

Bench vice

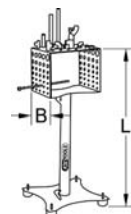
- With swivel base
- With interchangeable jaws
- Includes pipe vice attachment
- Absolutely parallel with adjustable centric drive
- Extra high possible clamping jaws shaped by large embossed casting
- Large anvil for straightening and compression work
- Induction hardened jaws and anvil
- Vice forward opening
- Ground jaws, anvil plate and slide corners
- Special steel



Item	Clamping range	Clamping range mm	Jaw length mm	kg
914.0003	3"	75,0	100.0	7.50
914.0004	4"	100,0	120.0	8.70
914.0005	5"	125,0	140.0	11.00
914.0006	6"	150,0	170.0	14.50
914.0008	8"	200,0	200.0	20.50

Soldering vice

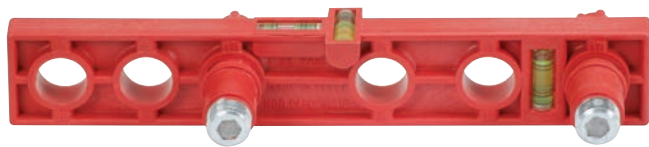
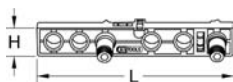
- Patented soldering vice
- Special steel



Item	B mm	L mm	kg
914.0020	255.0	990.0	13.20

Standard spirit level

- For standard sizes 15, 16, 17, 20 + 21 cm
- Each with a horizontal and vertical level vial
- Plastic



Item	H mm	L mm	Weight
204.1000	50.0	300.0	430

Standard spirit level

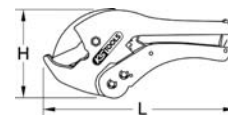
- For standard sizes 15, 16, 17, 20 + 21 cm
- Each with a horizontal and vertical level vial
- Metal



Item	H mm	L mm	Weight
204.2000	50.0	300.0	430

Automatic plastic pipe cutter 0 - 42 mm

- For PE, PP and PVDF pipes
- Stainless steel blade
- Die cast body



Item	Ø mm	H mm	L mm	Weight
222.0005	0 - 42,0	105.0	230.0	222.0015 600

Hose cutter Ø 0 - 37 mm

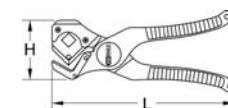
- Teflon coated blade
- Aluminium die cast body



Item	Ø mm	H mm	L mm	Weight
222.2051	0 - 37,0	95.0	210.0	222.2052 80

Hose cutter Ø 6 - 25 mm

- Aluminium die cast body

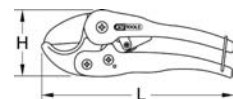


Item	Ø mm	H mm	L mm	Weight
222.2060	6,0 - 25,0	50.0	185.0	222.2061 300

PLASTIC PIPE PROCESSING

Plastic pipe cutter

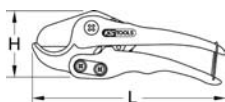
- For PE, PP and PVDF pipes
- Stainless steel blade
- Die cast body



Item	Ø mm	H mm	L mm	Weight
222.0001	0 - 32,0	70.0	200.0	222.0011 290
222.0002	0 - 42,0	95.0	220.0	222.0012 430
222.0003	0 - 63,0	135.0	430.0	222.0013 1200
222.0004	0 - 75,0	175.0	480.0	222.0014 1600

Plastic pipe cutter Ø 0 - 38 mm

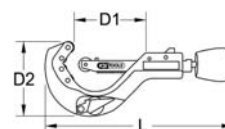
- Teflon coated cutting blades
- Aluminium die cast body



Item	Ø mm	H mm	L mm		
222.1001M	0 - 38,0	71.0	205.0	222.1011M	320

Automatic ratchet pipe cutter for plastic pipe

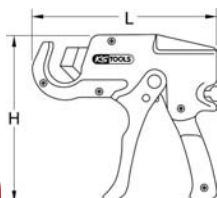
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Cutting depth max. 5 mm
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	
222.0660	6,0 - 64,0	90.0	225.0	222.0665	103.2002	222.0666	500

Plastic pipe cutting pistol Ø 6 - 35 mm

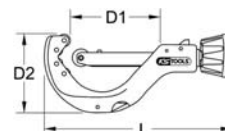
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body



Item	Ø mm	H mm	L mm		
222.1100	6,0 - 35,0	160.0	190.0	222.1101	630

Automatic ratchet pipe cutter for copper pipe

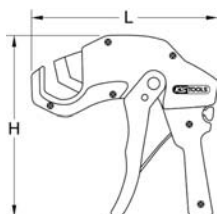
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Plastic cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special steel



Item	D1 mm	D2 mm	L mm	Metal	V/A	Plastic	
222.0750	15,0 - 80,0	100.0	250.0	222.0752	-	222.0751	800
222.1250	50,0 - 140,0	150.0	350.0	222.0752	-	222.1251	1540

Plastic pipe cutting pistol Ø 6 - 42 mm

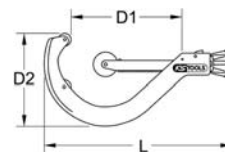
- Two stage cutting range 6 to 26 mm + 6 - 42 mm
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body



Item	Ø mm	H mm	L mm		
222.3100	6,0 - 42,0	220.0	210.0	222.3101	750

Automatic ratchet pipe cutter for plastic pipe

- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Metal cutter can be retrofitted
- Cutting depth max. 19 mm
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



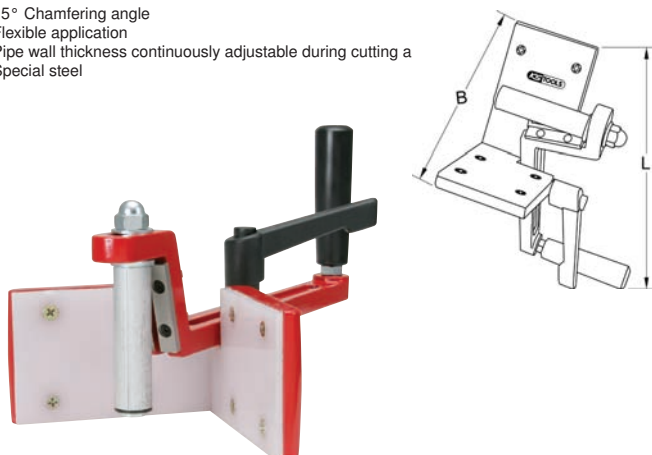
Item	D1 mm	D2 mm	L mm	Metal	
222.1680	100,0 - 168,0	190.0	385.0	222.0752	1.60

Replacement blade

Item		
222.0011	222.0001	60
222.0012	222.0002	70
222.0013	222.0003	150
222.0014	222.0004	200
222.0015	222.0005	50
222.1011M	222.1001M	30
222.1101	222.1100	60
222.2052	222.2051	40
222.2061	222.2060	60
222.3101	222.3100	50

Plastic pipe chamfering device Ø 25 - 168 mm

- 15° Chamfering angle
- Flexible application
- Pipe wall thickness continuously adjustable during cutting a
- Special steel



Item	Ø mm	B mm	L mm	
222.5050	25,0 - 120,0	140,0	176,0	850

Cutting and chamfering kit CK110

- For cutting thin and thick walled plastic pipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case



Item	
222.5100	7 pcs Cutting and chamfering kit CK110

1 x		
1 x		
2 x		50 - 75 mm

Cutting and chamfering kit

- For cutting downpipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case



Item				
222.5110	6 pcs	Cutting and chamfering kit	4.91	

1 x		
1 x		
2 x		50 - 75 mm

Cutting and chamfering kit CK160

- For cutting thick walled plastic pipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case

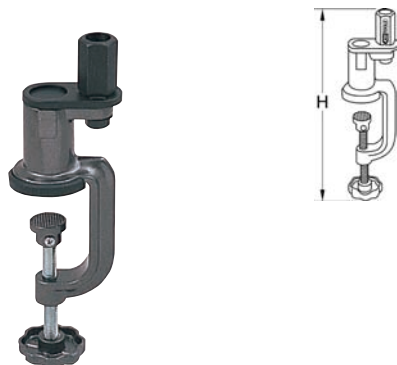


Item	
222.5200	7 pcs Cutting and chamfering kit CK160

1 x		
1 x		
2 x		110 - 125 mm

Bench clamp for chamfering kit CK110

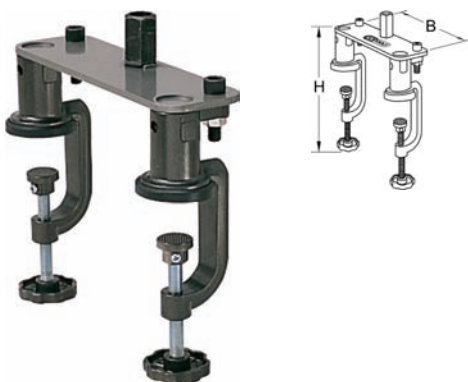
- Special steel



Item	H mm	kg
222.5102	200.0	380

Bench clamp for chamfering kit CK160

- With 2 clamping arms
- Special steel



Item	B mm	H mm	kg
222.5202	210.0	170.0	1.10

Reducing jaw set for chamfering kit CK110

- Plastic jaws



Item	Ø mm	B mm	L mm	kg
222.5001	32,0	56.0	108.0	240
222.5002	40,0	56.0	108.0	240
222.5003	50,0	56.0	108.0	240
222.5004	56,0	57.0	110.0	240
222.5005	58,0	57.0	110.0	240
222.5006	63,0	57.0	110.0	240
222.5007	75,0	73.0	110.0	240
222.5008	78,0	56.0	110.0	240
222.5009	80,0	56.0	110.0	240
222.5010	90,0	56.0	110.0	240
222.5011	100,0	56.0	110.0	240
222.5012	52,0	56.0	110.0	240
222.5014	87,0	56.0	110.0	240

Reducing jaw set for chamfering kit CK160

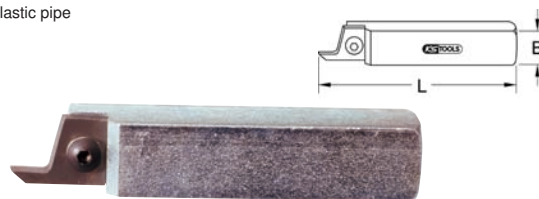
- Plastic jaws



Item	Ø mm	B mm	L mm	kg
222.5210	110,0	56.0	160.0	200
222.5211	125,0	56.0	160.0	200
222.5212	135,0	56.0	160.0	200
222.5213	140,0	56.0	160.0	200

Cutting tool shaft includes cutting tool for CK110

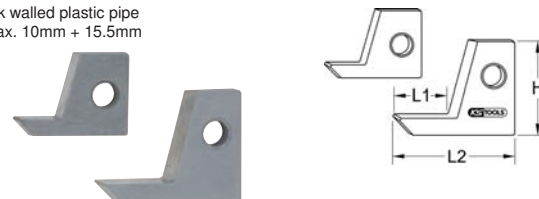
- For thin walled plastic pipe
- Special steel



Item	B mm	L mm	kg
222.5105	19.0	89.0	120

Replacement carbide cutting blade for CK110 + CK160

- For thin and thick walled plastic pipe
- Cutting depth max. 10mm + 15.5mm
- Special steel



Item	H mm	L1 mm	L2 mm	kg
900.5019	20.3	15.5	25.5	20
900.5029	14.7	10.0	20.2	10

Cutting tool shaft includes replacement cutter for CK110 + CK160

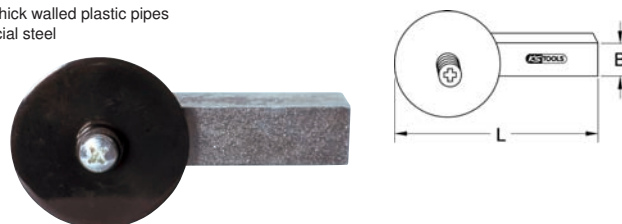
- For thin walled plastic pipes
- Special steel



Item	B mm	L mm	Metal	V/A	Plastic	kg
222.5106	16.0	80.0	-	-	101.1010	100

Cutting tool shaft includes replacement cutter for CK110 + CK160

- For thick walled plastic pipes
- Special steel



Item	B mm	L mm	Metal	V/A	Plastic	kg
222.5104	16.0	90.0	-	-	222.0751	120

WELDING

Sleeve welding tool set 650 W

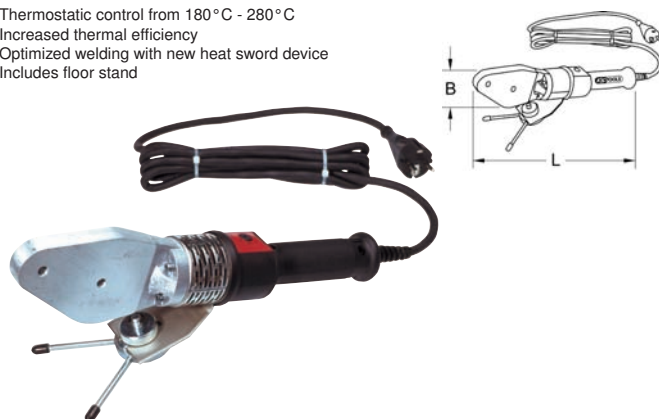
- Thermostatic control from 180°C - 280°C
- Increased thermal efficiency
- Optimized welding with new heat sword device
- Teflon coated welding extensions
- Supplied in durable metal storage case



Item			kg
207.6500	6 pcs	Sleeve welding tool set 650 W	8.60
1 x		180° - 280°C	
3 x		20 - 25 - 32 mm	
1 x			

Sleeve welding tool

- Thermostatic control from 180°C - 280°C
- Increased thermal efficiency
- Optimized welding with new heat sword device
- Includes floor stand



Item	B mm	L mm	kg
207.6501	85.0	370.0	2.00

Welding attachment for sleeve welding tool

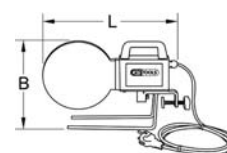
- Teflon coated



Item	Ø mm	B mm	L mm	kg
207.1016	16,0	38,0	61,0	80
207.1020	20,0	43,0	52,0	110
207.1025	25,0	46,0	52,0	140
207.1032	32,0	48,0	59,0	190
207.1040	40,0	57,0	61,0	290
207.1050	50,0	61,0	61,0	410
207.1063	63,0	130,0	78,0	720

Heater elementl 800 W

- Temperature adjustable from 50°C - 260°C
- For pipe up to max. Ø 180 mm
- For efficient butt welding of plastic pipes and fittings
- Optimal temperature distribution
- Includes stand and holding device for machine tools
- 220 V power supply

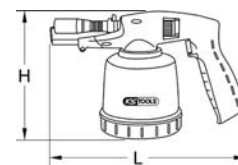


Item	B mm	L mm	kg
222.0800	180.0	340.0	4.10

BURNING & SOLDERING

Universal cartridge soldering torch with piezo ignition

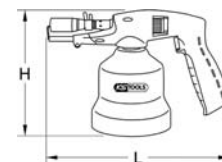
- Flame temperature 1700°C
- Operating temperature around 650°C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Use only with standard high performance burner
- Plastic body



Item	H mm	L mm	kg
903.5902	165.0	270.0	890

Universal cartridge soldering torch with piezo ignition

- Flame temperature 1700°C
- Operating temperature around 650°C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Use only with standard high performance burner
- Metal body



Item	H mm	L mm	kg
903.5905	165.0	270.0	640

Universal cartridge soldering torch

- Flame temperature 1700 °C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Plastic body



Item	H mm	L mm	
903.5901	168.0	255.0	890

Butane gas cartridge 190 gr.

- In accordance with EN 417
- Butane gas cartridge with propane for working at low temperatures
- Minimum order quantity 1 carton = 36 pieces



Item	B mm	H mm	
903.5900	90.0	95.0	290

Universal cartridge soldering torch

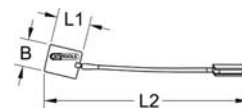
- Flame temperature 1700 °C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Metal body



Item	H mm	L mm	
903.5904	158.0	250.0	780

Magnetic welding mirrors

- Mirror chrome
- Flexible arm
- Special steel



Item	B mm	L1 mm	L2 mm	
903.6000	70.0	80.0	500.0	470

Burner accessories kit

- Burner accessories suitable for 903.5901 + 903.5904
- Special steel

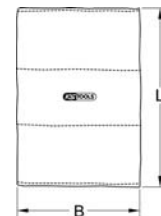


Item	
903.5910 3 pcs Burner accessories kit	300

1 x		
1 x		Ø 22,0 mm
1 x		40,0 mm

Flame proof mats

- Asbestos free
- Reduced fire risk
- Very flexible
- Good formability



Item	B mm	L mm	max. °C	
610.3350	330.0	500.0	700	330
610.3351	460.0	800.0	700	650
610.3399	1500.0	2000.0	600	2110

Brazing CU P6

- For the installation of copper pipes to DIN 8513
- 93,8% copper, 6,2% phosphorus
- Melting point 710°C - 880°C
- Operating temperature 730°C



Item			
903.1000	Brazing CU P6	1000	
903.1000-1		500	
903.1000-2		250	

Brazing L-Ag 2 P

- For the installation of copper pipes to DIN 8513
- 1,5 - 2,5% silver, 5,9% - 6,5% phosphorus, balance copper
- Melting point 650°C - 810°C
- Operating temperature 710



Item			
903.1002	Brazing L-Ag 2 P	1000	
903.1002-1		500	
903.1002-2		250	

Brazing L-Ag 5 P

- For the installation of copper pipes to DIN 8513
- 4,0 - 6,0% silver, 5,7% - 6,3% phosphorus, balance copper
- Melting point 650°C - 810°C
- Operating temperature 710

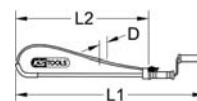


Item			
903.1005	Brazing L-Ag 5 P	1000	
903.1005-1		500	
903.1005-2		250	

PIPE CLEANING

Toilet unblocker

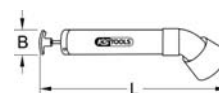
- Flexible use, even in hard to reach places
- No damage to ceramic surfaces due to the plastic coating on the elbow
- With bulbous head
- Crank drive



Item	D mm	L1 mm	L2 mm		
900.1996	30.0	1090.0	900.0	200	

Toilet suction and pressure test pump

- Powerful suction and pressure cleaner with universal adapter
- Double sided adapter
- Conical adapter fits all toilet outlets and adaptors
- Ideal for quick removal of pipe blockages in drains, toilets, washbasins, baths and soil pipes
- Plastic molded



Item	B mm	L mm		
950.0500	78.0	570.0	1.40	

Pipe and drain cleaner ROSPI 6

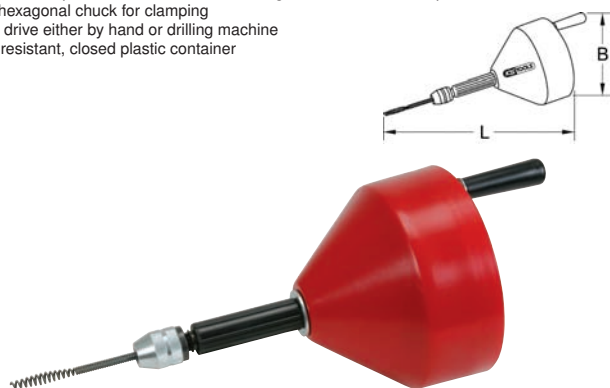
- Pipe cleaning device with funnel spiral and bulbous end for use in very narrow pieces of pipe elbows up to Ø 50 mm without removing the sink sleeves or siphons
- With a hexagonal chuck for clamping
- Can be drive either by hand or drilling machine
- Impact resistant, closed plastic container



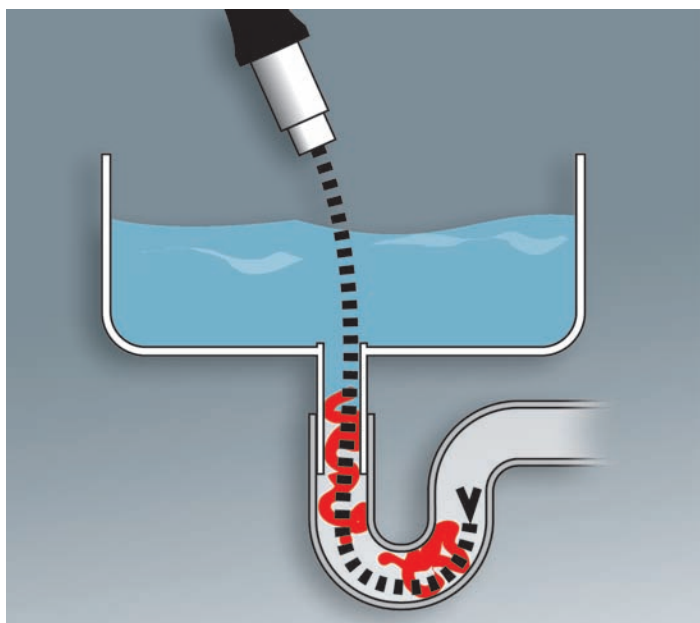
Item	Ø mm	Spiral length m	B mm	L mm	Replacement spiral		
900.1990	6,0	4,5	140,0	290,0	900.2522	1,60	

Pipe and drain cleaner ROSPI

- Pipe cleaning device with funnel spiral and bulbous end for use in very narrow pieces of pipe elbows up to Ø 75 mm without removing the sink sleeves or siphons
- With a hexagonal chuck for clamping
- Can be drive either by hand or drilling machine
- Impact resistant, closed plastic container



Item	Ø mm	Spiral length m	B mm	L mm	Replacement spiral	kg
900.1995	7,6	7.5	208.0	319.0	900.2416	3.40
900.2000	9,6	9.5	208.0	319.0	900.2422	5.10



Channel and pipe cleaning machine KS 600

- Universal applications for both indoors and outdoors
- One man pipe cleaning system
- Practical service unit for mobile use
- Splash proofed
- Spiral electromechanical actuator
- Two sided level of control allows for operation even on inclined surfaces
- Included guide hose so kink free work is guaranteed
- Can work with 16 mm + 22 mm coils without changing the clamping jaws
- For coils with direct fitting of 16 mm + 22 mm
- Optionally, for 8 mm + 10 mm spirals with adapter magazine
- Including 4 m guide tube for 16 mm + 22 mm spirals
- Motor: 230 V, 0.4 KW - right - left drive
- Speed: 620 rpm
- Operating range: for pipes Ø 20.0 - 150.0 mm
- Working length: 10 m - 8 mm-Spiral
10 m - 10 mm-Spiral
50 m - 16 mm-Spiral
60 m - 22 mm-Spiral



Item	H mm	L mm	kg
900.2780	380.0	420.0	20.90

Channel and pipe cleaning tool kit Ø 16 mm

- Pipe cleaning tool kit with spiral with a diameter of 16 mm
- Includes spiral basket for safe keeping of the spiral



Item	kg
900.1916 13 pcs Channel and pipe cleaning tool kit Ø 16 mm	9.10
1 x 16 mm	
5 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 25 mm	
1 x 25 mm	

Channel and pipe cleaning tool kit Ø 16 mm

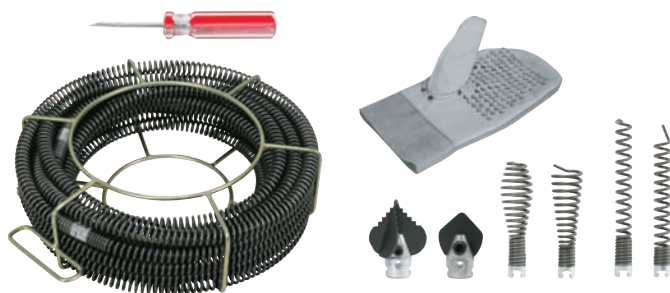
- Pipe cleaning tool kit with spiral with an internal diameter of 16 mm
- Includes spiral basket for safe keeping of the spiral

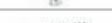


Item	kg
900.1917 13 pcs Channel and pipe cleaning tool kit Ø 16 mm	9.10
1 x 16 mm	
5 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 16 mm	
1 x 25 mm	
1 x 25 mm	

Channel and pipe cleaning tool kit Ø 22 mm

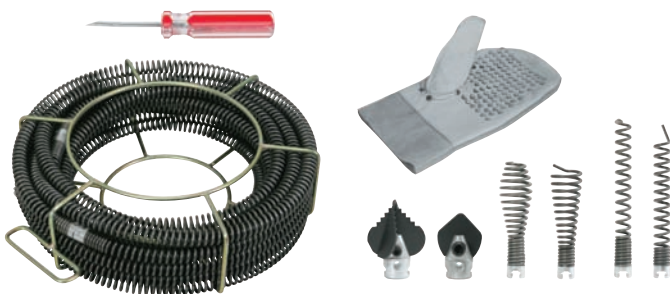
- Pipe cleaning tool kit with spiral with a diameter of 22 mm
- Includes spiral basket for safe keeping of the spiral



Item			
900.1922	14 pcs	Channel and pipe cleaning tool kit Ø 22 mm	22.83
1 x		22 mm	
5 x		22 mm	
1 x		22 mm	
1 x		22 mm	
1 x			
1 x		22 mm	
1 x		40 mm	
1 x		45 mm	
1 x		22 mm	
1 x		22 mm	

Channel and pipe cleaning tool kit Ø 22 mm

- Pipe cleaning tool kit with spiral with an internal diameter of 22 mm
- Includes spiral basket for safe keeping of the spiral



Item			
900.1923	14 pcs	Channel and pipe cleaning tool kit Ø 22 mm	25.13
1 x		22 mm	
5 x		22 mm	
1 x		22 mm	
1 x		22 mm	
1 x			
1 x		22 mm	
1 x		40 mm	
1 x		45 mm	
1 x		22 mm	
1 x		22 mm	

Channel and pipe cleaning tool kit ø 16 mm + 22 mm

- Pipe cleaning tool kit with spiral with a diameter of 16 + 22 mm
- Includes spiral basket for safe keeping of the spiral
- Includes pipe cleaning machine
- Motor: 230 V, 0,4 KW - Right- Left drive
- Speed: 620 rpm
- Operating range: for pipes Ø 20 - 150 mm
- Working length: 10 m - 8 mm-Spiral
10 m - 10 mm-Spiral
50 m - 16 mm-Spiral
60 m - 22 mm-Spiral



Item			
900.2790	29 pcs	Channel and pipe cleaning tool kit ø 16 mm + 22 mm	29.00
2 x		16 - 22 mm	
2 x		16 - 22 mm	
1 x			
2 x		16 - 22 mm	
1 x		16 mm	
2 x		16 - 40 mm	
2 x		25 - 45 mm	
2 x		25 - 22 mm	
1 x		22 mm	
10 x		5 x 16 mm - 5 x 22 mm	
1 x			
1 x		8 mm	
1 x		4 m	



Channel and pipe cleaning tool kit ø 16 mm + 22 mm

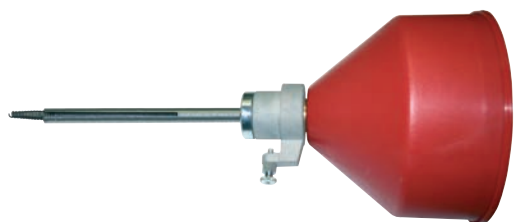
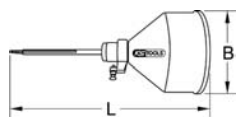
- Pipe cleaning tool kit with spiral with an internal diameter of 16 + 22 mm
- Includes spiral basket for safe keeping of the spiral
- Includes pipe cleaning machine
- Motor: 230 V, 0.4 KW - Right- Left drive
- Speed: 620 rpm
- Operating Range: For pipes Ø 20.0 - 150.0 mm
- Working length: 10 m - 8 mm-Spiral
10 m - 10 mm-Spiral
50 m - 16 mm-Spiral
60 m - 22 mm-Spiral



Item			kg
900.2791	29 pcs	Channel and pipe cleaning tool kit ø 16 mm + 22 mm	29.65
2 x		16 - 22 mm	
2 x		16 - 22 mm	
1 x			
2 x		16 - 22 mm	
1 x		16 mm	
2 x		16 - 40 mm	
2 x		25 - 45 mm	
2 x		25 - 22 mm	
1 x		22 mm	
10 x		5 x 16 mm - 5 x 22 mm	
1 x			
1 x		8 mm	
1 x		4 m	

Magazine adapter for pipe cleaning machine KS 600

- For use with pipe cleaner 900.2780
- Adapter magazine included spiral with leg drills
- Spiral length 10 m
- Through the use of the adapter magazine for even very small tube diameters available



Item	Ø mm	B mm	L m	kg
900.2788	8,0	200.0	10.0	1.80
900.2799	10,0	200.0	10.0	1.80

Guide hose for pipe cleaning machine KS 600

- For use with pipe cleaner 900.2780
- Through the use of the guide tube that is provided this guarantees kink free working of the spiral
- Helps prevent pollution and damage
- 4 m long



Item	D mm	L m	kg
900.2787	16,0 - 22,0	4.0	0.50

Drain cleaning spiral

- Very flexible spiral
- For universal pipe cleaning applications
- Perfectly suited for tight bends
- With attachment for special tools
- Special steel



Item	Ø mm	L m	kg
900.2431	16,0	2.3	1.05
900.2441	22,0	4.5	4.00
900.2451	32,0	4.5	6.50

Pipe cleaning spiral with plastic inner tube

- For working with large spiral lengths
- For removing stubborn pipe deposits
- High stability due to plastic inner tube
- Perfectly suited for tight bends
- Plastic inner core is temperature and weather resistant
- With attachment for special tools
- Special steel



Item	Ø mm	L m	kg
900.2433	16,0	2.3	1.24
900.2442	22,0	4.5	4.65
900.2452	32,0	4.5	7.65

Arrow drill

- For cleaning greasy or very muddy pipes
- With riveting to the adaptor
- Hardened and high strength spring steel



Item	Ø mm	For spiral mm	Operation range mm	
900.2169	25,0	16,0	38,0 - 50,0	40
900.2170	35,0	16,0	50,0 - 75,0	50
900.2171	45,0	16,0	60,0 - 100,0	70
900.2172	55,0	16,0	75,0 - 125,0	80
900.2233	35,0	22,0	50,0 - 100,0	100
900.2234	45,0	22,0	60,0 - 125,0	110
900.2254	65,0	22,0	75,0 - 125,0	300
900.2256	80,0	22,0	100,0 - 150,0	340
900.2257	90,0	22,0	100,0 - 150,0	350
900.2260	55,0	22,0	60,0 - 125,0	130
900.2335	35,0	32,0	50,0 - 100,0	140
900.2336	45,0	32,0	75,0 - 100,0	170
900.2337	55,0	32,0	75,0 - 100,0	180
900.2338	65,0	32,0	100,0 - 150,0	300
900.2361	90,0	32,0	125,0 - 200,0	360
900.2390	80,0	32,0	100,0 - 150,0	340

Cross leaf drill

- Can be used in textiles blockages, clogging, sludge deposits, pipe incrustations etc.
- With riveting to the adaptor
- High stability and long life
- Hardened and high strength spring steel



Item	Ø mm	For spiral mm	Operation range mm	
900.2175	25,0	16,0	38,0 - 50,0	40
900.2176	35,0	16,0	50,0 - 75,0	60
900.2177	45,0	16,0	60,0 - 100,0	80
900.2178	55,0	16,0	75,0 - 125,0	90
900.2235	35,0	22,0	50,0 - 100,0	110
900.2255	55,0	22,0	60,0 - 125,0	140
900.2275	45,0	22,0	75,0 - 100,0	120
900.2276	65,0	22,0	100,0 - 150,0	330
900.2277	80,0	22,0	100,0 - 200,0	370
900.2279	90,0	22,0	100,0 - 200,0	500
900.2280	115,0	22,0	100,0 - 250,0	560
900.2345	35,0	32,0	50,0 - 100,0	140
900.2346	55,0	32,0	60,0 - 125,0	210
900.2349	80,0	32,0	100,0 - 150,0	410
900.2371	65,0	32,0	100,0 - 125,0	350
900.2372	45,0	32,0	60,0 - 125,0	170
900.2379	90,0	32,0	125,0 - 200,0	510
900.2380	115,0	32,0	150,0 - 250,0	580

Forked cutting head

- Can be used in light to heavy contamination of the drainage pipe
- High stability and long life
- Hardened and high strength spring steel



Item	Ø mm	For spiral mm	Operation range mm	
900.2164	40,0	16,0	40,0 - 75,0	20
900.2154	30,0	16,0	50,0 - 75,0	30

Notched forked cutting head

- Can be used with silting and deeply rooted pipes
- Cutting head front and rear dovetailed
- High stability and long life
- Hardened and high strength spring steel



Item	Ø mm	For spiral mm	Operation range mm	
900.2250	65,0	22,0	75,0 - 100,0	220
900.2251	90,0	22,0	100,0 - 150,0	260
900.2252	125,0	22,0	125,0 - 200,0	290
900.2253	150,0	22,0	200,0 - 300,0	300
900.2350	65,0	32,0	75,0 - 100,0	260
900.2351	90,0	32,0	100,0 - 150,0	290
900.2352	125,0	32,0	125,0 - 200,0	330
900.2353	150,0	32,0	200,0 - 300,0	340

Root cutter

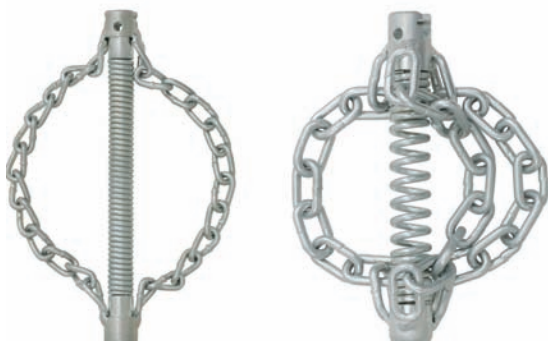
- Can be used with pipes that are rooted
- High stability and long life
- Hardened and high strength spring steel



Item	Ø mm	For spiral mm	Operation range mm	
900.2265	65,0	22,0	75,0 - 100,0	350
900.2266	90,0	22,0	125,0 - 200,0	490
900.2267	125,0	22,0	200,0 - 300,0	770
900.2365	65,0	32,0	75,0 - 100,0	390
900.2366	125,0	32,0	200,0 - 300,0	590
900.2367	90,0	32,0	125,0 - 200,0	810

Chain spinning head with a smooth chain

- Can be used in blocked and encrusted pipes
- Flexible design suitable for tight bends
- Optimum setting to pipe diameter due to centrifugal force
- Pipe protecting removal of impurities
- For cleaning of stoneware and plastic pipes
- Special steel



Item	Ø mm		For spiral mm	Operation range mm	L mm	Weight kg
900.2183	30,0	3 Chains	16,0	50,0 - 125,0	160,0	210
900.2185	30,0	2 chains	16,0	50,0 - 125,0	160,0	170
900.2187	30,0	4 Chains	16,0	50,0 - 125,0	160,0	240
900.2283	45,0	2 chains	22,0	60,0 - 125,0	160,0	440
900.2284	45,0	3 Chains	22,0	60,0 - 125,0	160,0	530
900.2289	45,0	4 Chains	22,0	60,0 - 125,0	160,0	630
900.2382	50,0	2 chains	32,0	70,0 - 130,0	210,0	970
900.2383	50,0	4 Chains	32,0	70,0 - 130,0	210,0	1200

Chain spinning head with a spiked chain

- Can be used in blocked and encrusted pipes
- For intensive cleaning of concrete pipe and cast iron pipes
- Flexible design suitable for tight bends
- Optimum setting to pipe diameter due to centrifugal force
- Pipe protecting removal of impurities
- Thorough cleaning reduces the possibility of new blockages
- Special steel



Item	Ø mm		For spiral mm	Operation range mm	L mm	Weight kg
900.2184	30,0	3 Chains	16,0	50,0 - 125,0	160,0	230
900.2186	30,0	2 chains	16,0	50,0 - 125,0	160,0	210
900.2188	30,0	4 Chains	16,0	50,0 - 125,0	160,0	270
900.2278	45,0	2 chains	22,0	60,0 - 125,0	160,0	490
900.2288	45,0	3 Chains	22,0	60,0 - 125,0	160,0	630
900.2299	45,0	4 Chains	22,0	60,0 - 125,0	160,0	670
900.2347	50,0	2 chains	32,0	70,0 - 130,0	210,0	1070
900.2348	50,0	4 Chains	32,0	70,0 - 130,0	210,0	1440

Straight head

- Standard tool for exploring the type of blockage
- For use in textiles or cellulose blockages
- To take samples to determine appropriate follow up tool
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	Weight kg
900.2161	16,0	16,0	25,0 - 75,0	110,0	60
900.2221	22,0	22,0	50,0 - 100,0	180,0	170
900.2321	32,0	32,0	75,0 - 250,0	190,0	350

Funnel shaped head

- For specific use in textiles or cellulose blockages
- Wide coverage by funnel shaped
- Can also be used to retrieve from spirals remaining in the pipe
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	Weight kg
900.2165	32,0	16,0	65,0 - 100,0	110,0	80
900.2222	55,0	22,0	75,0 - 150,0	180,0	280
900.2322	60,0	32,0	125,0 - 250,0	190,0	500

Leg drills

- For specific use on light textile or cellulose blockages
- Ideal for close and several consecutive elbows
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	Weight kg
900.2163	28,0	16,0	38,0 - 75,0	110,0	70
900.2263	40,0	22,0	75,0 - 100,0	180,0	220
900.2363	50,0	32,0	75,0 - 250,0	190,0	490

Double leg drills

- Suitable for difficult to access trunking systems
- Double leg facilitate the penetration into narrow pipe bend
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	Weight kg
900.2158	35,0	16,0	38,0 - 75,0	130,0	90

Jointed bolbous head

- Ideal for narrow pipe with a small pipe diameters
- Flexible due to joint
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	
900.2159	24,0	16,0	38,0 - 75,0	83,0	60

Spring recovery head

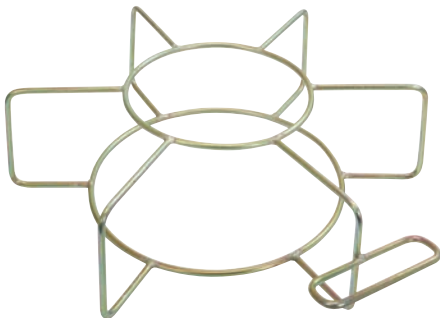
- Not suitable for drilling
- To retrieve from spirals remaining in the pipe
- With flared tentacle to grasp spiral
- Special steel



Item	Ø mm	For spiral mm	Operation range mm	L mm	
900.2162	35,0	16,0	25,0 - 75,0	50,0	40
900.2203	45,0	22,0	50,0 - 100,0	90,0	110
900.2325	65,0	32,0	75,0 - 250,0	100,0	240

Spiral basket

- For the safe storage and easy transport
- Ideal for cleaning and maintenance of the spirals
- Special steel



Item	Ø mm	For spiral mm	H mm	No. spirals	Max spiral length m	
900.2110	450,0	16,0	140,0	15	34,5	1.25
900.2112	470,0	22,0	170,0	5	22,5	1.60
900.2113	520,0	22,0 / 32,0	190,0	5 / 4	22,5 / 18,0	2.30

Guiding glove

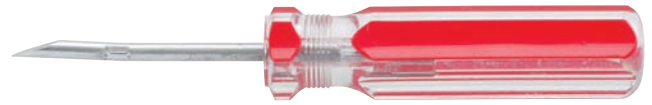
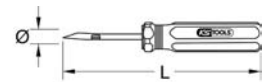
- Strong robustness
- Optimum protection during use of the spiral
- With inner glove and a long cuff
- Riveting stocking on the palm side and partly on the back
- Made from high quality leather



Item		
900.2121	left	210
900.2120	right	210

Spiral safety separation key

- For safety whilst uncoupling the spiral
- Injuries are avoided with this safety key rather than using pins



Item	For spiral mm	Ø mm	L mm	
900.2100	16,0	12,0	125,0	20
900.2101	22,0 / 32,0	20,0	125,0	30

Replacement spirals for pipe cleaning device

- For pipe cleaning device Rospi 6, 8 + 10
- Especially suitable for light blockage by textiles and cellulose materials
- With integrated bolbous head
- Special steel



Item	Ø mm	L m	
900.2415	8,0	4.5	1.05
900.2416	8,0	7.5	1.80
900.2417	8,0	9.5	1.60
900.2422	10,0	9.5	3.50
900.2522	6,0	4.5	0.90
900.2523	6,0	6.0	1.20

Replacement spiral with steel inner core for Rospi pipe cleaners

- For pipe cleaning device ROSPI 8 + 10
- Very stable for the most severe pollution
- With integrated steel inner tube
- Particularly suitable for devices with automatic feed
- Special steel



Item	Ø mm	L m	
900.9975	8,0	7.5	2.25
900.9978	8,0	10.0	2.90

CHIMNEY SWEEP TOOLS

Boiler cleaning tool kit

- Ideal for regular cleaning of small to medium fireplaces
- Optional extensions
- Includes 5 durable extension rods
- Polypropylene rods
- Hard plastic brush



Item					
900.6000	8 pcs	Boiler cleaning tool kit		2.95	
6 x		20 x 1500 mm			
1 x		200 mm			
1 x					

Hand crank for screw extensions

- With a patented screw cap
- Special steel



Item	Ø mm	L mm	Colour code		
900.6025	12,0	175.0	●	275	

Screw extensions for boiler cleaning tool

- Adaptor M12 threaded
- Polypropylene



Item	Ø mm	L m	Colour code		
900.6010	18,0	1.0	●	247	
900.6011	18,0	1.5	●	337	
900.6012	18,0	2.0	●	386	
900.6015	20,0	1.0	●	334	
900.6016	20,0	1.5	●	458	
900.6017	20,0	2.0	●	578	

Screw extensions for chimney sweep tools

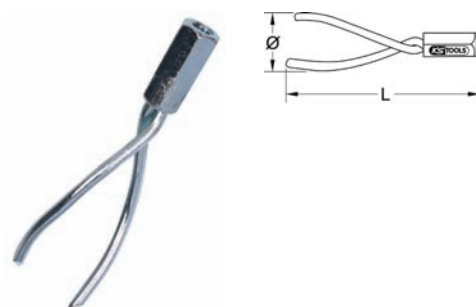
- Adaptor M12 threaded
- With a patented screw cap
- Polypropylene



Item	Ø mm	L m	Colour code		
900.6020	18,0	1.0	●	225	
900.6021	18,0	1.5	●	345	
900.6022	18,0	2.0	●	395	

Fork screw

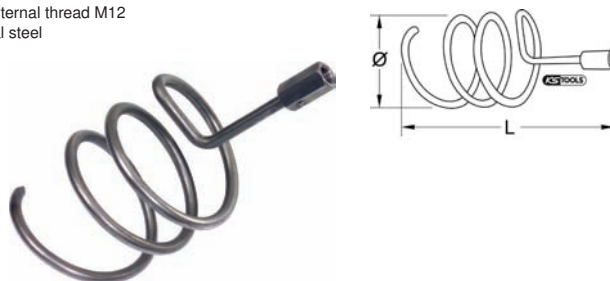
- With internal thread M12
- Special steel



Item	Ø mm	L mm		
900.6035	40,0	130.0	97	

Worm screw

- With internal thread M12
- Special steel



Item	Ø mm	L mm		
900.6036	100,0	240.0	430	

Crescent scraper

- With internal thread M12
- Special steel



Item	Ø mm	L mm		
900.6040	100,0	100.0	130	

Cast iron ball

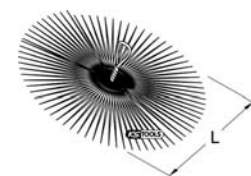
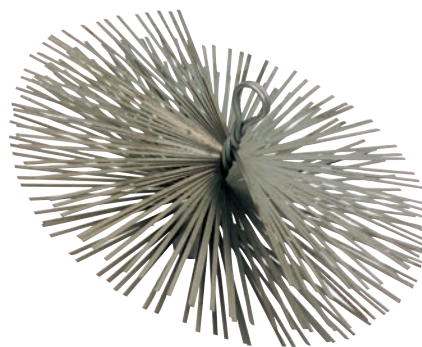
- With cast steel hooks
- 3 kg
- Special steel



Item	Ø mm	L mm	kg
900.6050	80,0	140,0	3,00

Steel cleaning brush

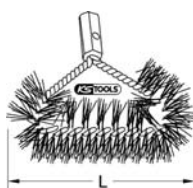
- Round
- With internal thread M12
- Special steel



Item	Ø mm	L mm	kg
900.6205	200,0	130,0	257
900.6206	250,0	130,0	290

Bottle cleaning brush

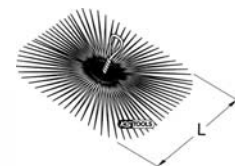
- With internal thread M12
- Special steel



Item	Ø mm	L mm	kg
900.6055	50,0	50,0	154

Steel cleaning brush

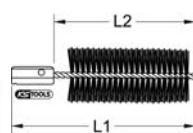
- Square
- With internal thread M12
- Special steel



Item	Ø mm	L mm	kg
900.6210	200,0 x 200,0	130,0	279
900.6211	250,0 x 250,0	130,0	412
900.6212	300,0 x 300,0	130,0	475

Boiler brush

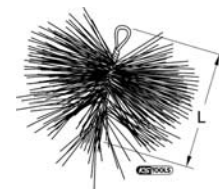
- With internal thread M12
- Special steel



Item	Ø mm	L1 mm	L2 mm	kg
900.6060	50,0	200,0	120,0	141
900.6061	60,0	200,0	120,0	152
900.6062	70,0	200,0	120,0	165
900.6063	80,0	200,0	120,0	173

Synthetic cleaning brush

- Round
- With internal thread M12
- Hard plastic



Item	Ø mm	L mm	kg
900.6230	150,0	130,0	192
900.6231	200,0	130,0	210
900.6232	250,0	130,0	240
900.6233	300,0	130,0	252

Steel cleaning brush

- Rectangular
- With internal thread M12
- Special steel



Item	Ø mm	L mm	kg
900.6222	200,0 x 400,0	130,0	498

CONSTRUCTION SCREW CLAMP

ALL STEEL SCREW CLAMP

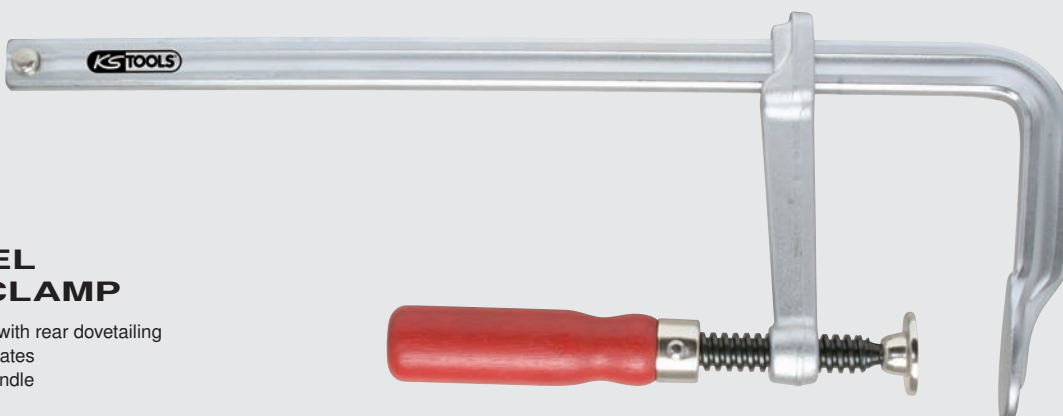
CAST IRON SCREW CLAMP

- Double T profile rail with rear dovetailing
- Movable clamping plates
- Extremely robust spindle
- With wooden handle
- Steel profile rail



ALL STEEL SCREW CLAMP

- Double T profile rail with rear dovetailing
- Movable clamping plates
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Forged fixed and moveable heads



ALL STEEL SCREW CLAMP WITH SLIDE BAR LOCKING HANDLE

- Double T profile rail with rear dovetailing
- Movable clamping plates
- Extremely robust spindle
- Steel profile rail
- With sliding bar through locking handle
- Forged fixed and moveable heads



CONSTRUCTION SCREW CLAMP

STEEL SCREW LEVER CLAMP WITH QUICK RELEASE ACTION

ALL STEEL QUICK RELEASE LEVER SCREW CLAMP

- Double T profile rail with rear dovetailing
- Movable clamping plates
- Quick release lever with ratchet function
- Steel profile rail
- For positive and strong clamping by hand operation
- Forged fixed and moveable heads



BRICK TROWEL

Brick trowel

- Blades made out of hardened carbon steel with wooden handle



Brick trowel

- Blades made out of hardened carbon steel with dual component soft handle



Stainless steel brick trowel

- Blade made from polished stainless steel with dual component soft handle



Float

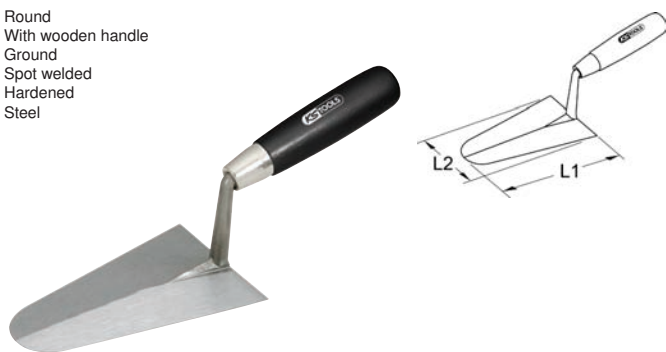
- With aluminum back plate, high quality foam rubber support plate



SCRAPERS & TROWELS

Plastering trowel

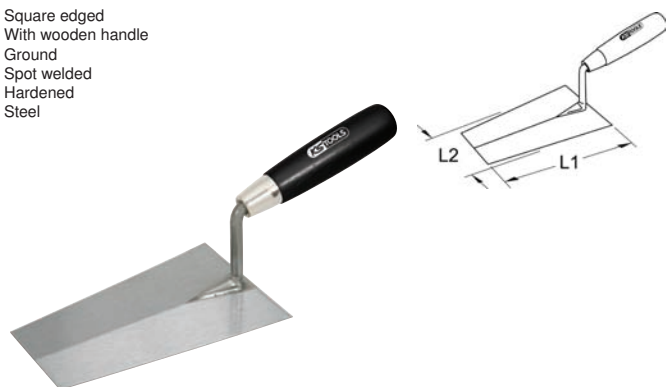
- Round
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0110	140.0	83.0	130
144.0111	160.0	115.0	260
144.0112	180.0	116.0	270
144.0113	200.0	118.0	310
144.0114	220.0	125.0	310
144.0115	240.0	133.0	330

Plastering trowel

- Square edged
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0122	180.0	115.0	310
144.0123	200.0	115.0	310
144.0124	220.0	125.0	310
144.0125	240.0	130.0	310

Gauging trowel

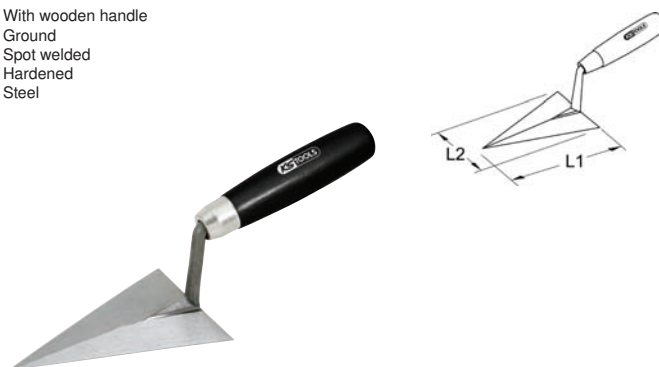
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0132	140.0	48.0	310
144.0133	160.0	52.0	310

Plastering trowel

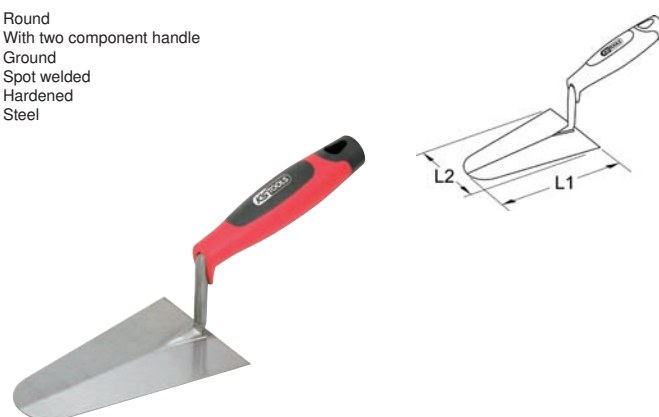
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0135	160.0	80.0	310

Plastering trowel

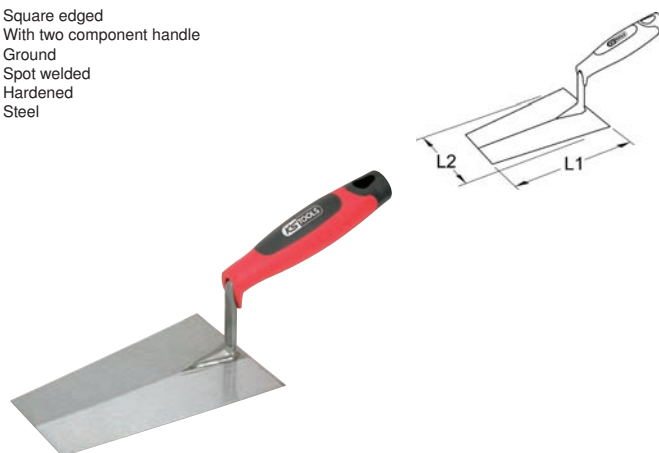
- Round
- With two component handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0210	140.0	83.0	150
144.0211	160.0	103.0	220
144.0212	180.0	110.0	270
144.0213	200.0	120.0	310
144.0214	220.0	125.0	310
144.0215	240.0	133.0	310

Plastering trowel

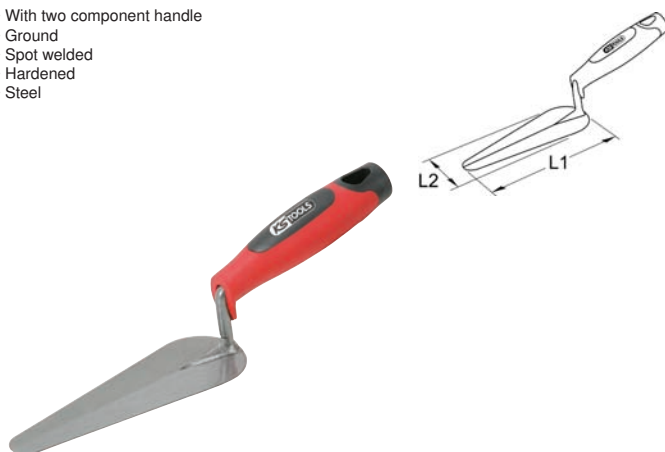
- Square edged
- With two component handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0222	180.0	116.0	270
144.0223	200.0	120.0	310
144.0224	220.0	125.0	310
144.0225	240.0	130.0	310

Gauging trowel

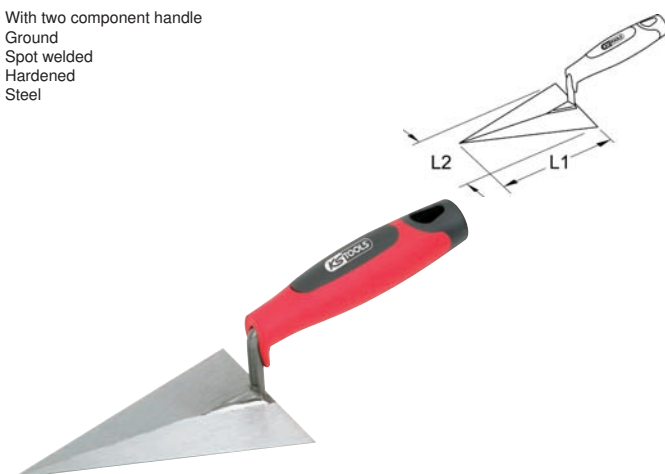
- With two component handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0232	140.0	49.0	130
144.0233	160.0	54.0	130

Plastering trowel

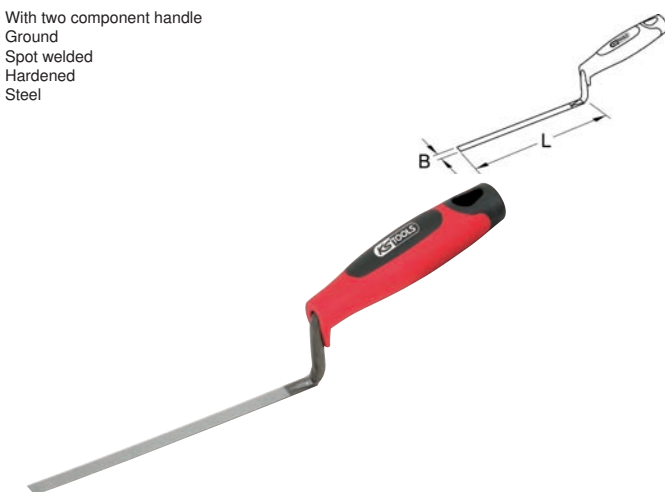
- With two component handle
- Ground
- Spot welded
- Hardened
- Steel



Item	L1 mm	L2 mm	
144.0235	160.0	80.0	130

Jointing trowel

- With two component handle
- Ground
- Spot welded
- Hardened
- Steel



Item	B mm	L mm	
144.0237	10.0	175.0	130
144.0238	12.0	175.0	130

Stainless steel plastering trowel

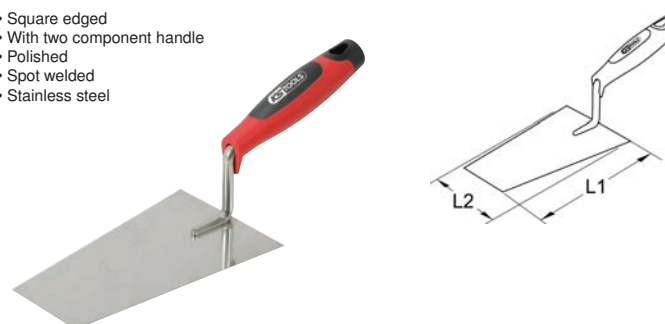
- Round
- With two component handle
- Polished
- Spot welded
- Stainless steel



Item	L1 mm	L2 mm	
144.0313	200.0	125.0	310

Stainless steel plastering trowel

- Square edged
- With two component handle
- Polished
- Spot welded
- Stainless steel



Item	L1 mm	L2 mm	
144.0323	200.0	127.0	270

Stainless steel gauging trowel

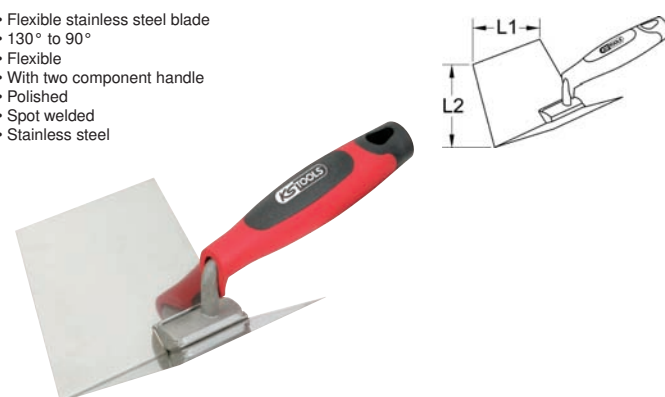
- With two component handle
- Polished
- Spot welded
- Stainless steel



Item	L1 mm	L2 mm	
144.0333	160.0	54.0	130

Stainless steel internal corner trowel

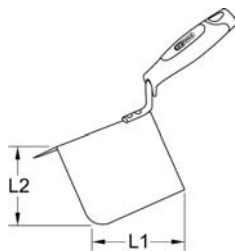
- Flexible stainless steel blade
- 130° to 90°
- Flexible
- With two component handle
- Polished
- Spot welded
- Stainless steel



Item	L1 mm	L2 mm	
144.0240	100.0	125.0	310

Stainless steel external corner trowel

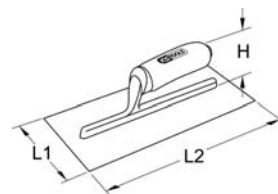
- Flexible stainless steel blade
- 130° to 90°
- Flexible
- With two component handle
- Polished
- Spot welded
- Stainless steel



Item	L1 mm	L2 mm	
144.0242	100.0	125.0	310

Stainless steel plastering trowel

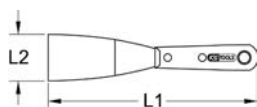
- With two component handle
- Ground
- Polished
- Riveted and welded
- Stainless steel



Item	H mm	L1 mm	L2 mm	
144.0458	90.0	130.0	280.0	310

Stainless steel scraper

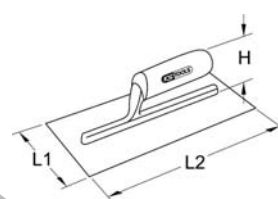
- With wooden handle
- Ground
- Polished
- Stainless steel



Item	L1 mm	L2 mm	
907.2261	225.0	25.0	70
907.2262	225.0	38.0	70
907.2263	225.0	50.0	70
907.2264	225.0	63.0	70
907.2265	225.0	75.0	80

Plastering trowel

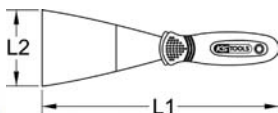
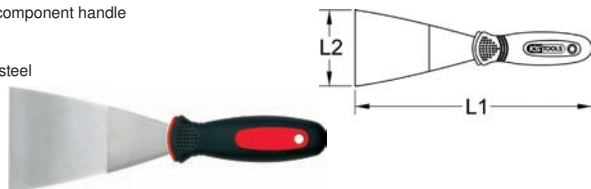
- With wooden handle
- Ground
- Hardened
- Riveted and welded
- Steel



Item	H mm	L1 mm	L2 mm	
144.0158	90.0	130.0	280.0	310

Stainless steel scraper

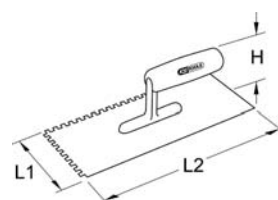
- With two component handle
- Ground
- Polished
- Stainless steel



Item	L1 mm	L2 mm	
144.0622	225.0	30.0	72
144.0624	225.0	40.0	73
144.0625	225.0	50.0	75
144.0626	225.0	60.0	84
144.0628	225.0	80.0	85

Plastering trowel

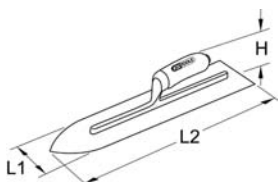
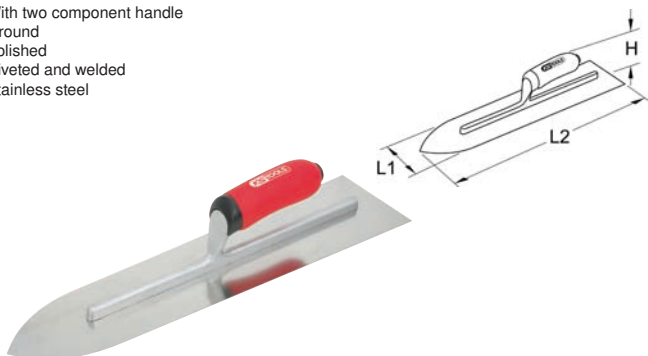
- Square serrations
- With wooden handle
- Ground
- Hardened
- Riveted and welded
- Steel



Item	Toothings mm	H mm	L1 mm	L2 mm	
144.0350	6,0 x 6,0	90.0	114.0	280.0	290
144.0351	10,0 x 10,0	90.0	114.0	280.0	310

Stainless flooring trowel

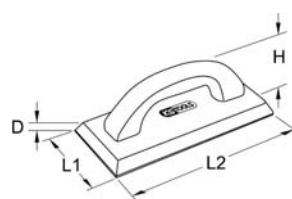
- With two component handle
- Ground
- Polished
- Riveted and welded
- Stainless steel



Item	H mm	L1 mm	L2 mm	
144.0461	90.0	110.0	455.0	420
144.0462	90.0	110.0	505.0	420

Rubber float

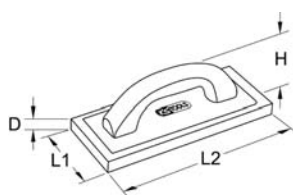
- With soft grip handle
- High quality rubber coating for extended life
- Aluminium mounting plate



Item	D mm	H mm	L1 mm	L2 mm	
144.0501	8.0	75.0	130.0	280.0	310

Sponge rubber float

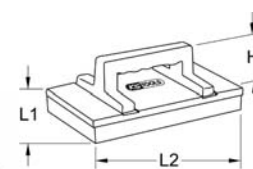
- With soft grip handle
- High quality red sponge rubber surface
- Aluminium mounting plate



Item	D mm	H mm	L1 mm	L2 mm	Weight (kg)
144.0505	19.0	80.0	100.0	240.0	360

Wooden float

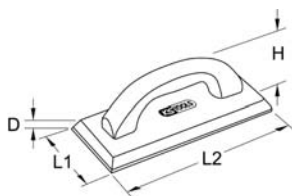
- Rectangular
- Cellular area
- With foam rubber sponge
- With plastic handle
- Wood



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0592	100.0	140.0	250.0	265
144.0593	100.0	180.0	330.0	370

Rubber float with additional high quality rubber surface

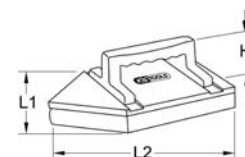
- With soft grip handle
- High quality sponge rubber surface
- Protected by an additional protective rubber plate
- Aluminium mounting plate



Item	D mm	H mm	L1 mm	L2 mm	Weight (kg)
144.0507	19.0	80.0	100.0	240.0	420

Wooden float

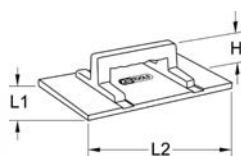
- Edge
- Cellular area
- With foam rubber sponge
- With plastic handle
- Wood



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0591	100.0	140.0	240.0	220
144.0590	100.0	180.0	270.0	290

Wooden float

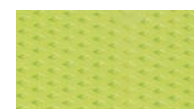
- Rectangular
- Cellular area
- With plastic handle
- Wood



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0580	70.0	180.0	270.0	310
144.0581	75.0	260.0	330.0	660
144.0582	70.0	280.0	400.0	760

ABS float

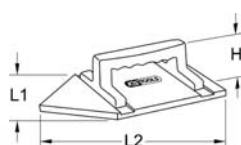
- Rectangular
- Cellular area
- Very good durability
- With wooden handle
- Green ABS mounting plate



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0546	60.0	120.0	200.0	190
144.0541	65.0	180.0	270.0	330
144.0545	65.0	270.0	350.0	560
144.0540	70.0	260.0	420.0	590

Wooden float

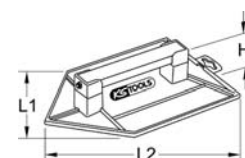
- Edge
- Cellular area
- With plastic handle
- Wood



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0583	70.0	180.0	270.0	245

ABS float

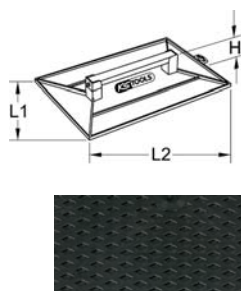
- Edge
- Cellular area
- With wooden handle
- Very good durability
- Green ABS mounting plate



Item	H mm	L1 mm	L2 mm	Weight (kg)
144.0551	40.0	80.0	140.0	75
144.0552	50.0	130.0	200.0	150
144.0550	60.0	180.0	270.0	280

Float

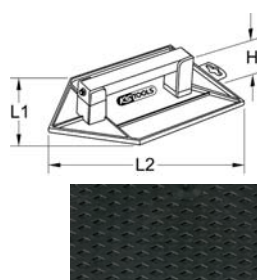
- Rectangular
- Cellular area
- With wooden handle
- Plate made from impact proof PS plastic



Item	H mm	L1 mm	L2 mm	Weight
144.0526	65.0	120.0	200.0	290
144.0521	65.0	180.0	270.0	175
144.0525	70.0	270.0	350.0	510
144.0520	70.0	280.0	420.0	530

Float

- Edge
- Cellular area
- With wooden handle
- Plate made from impact proof PS plastic



Item	H mm	L1 mm	L2 mm	Weight
144.0531	40.0	80.0	140.0	70
144.0532	55.0	130.0	200.0	140
144.0530	60.0	180.0	270.0	360

Sponge rubber float

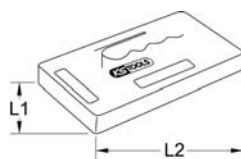
- Sponge rubber surface
- With wooden handle
- plate made from impact proof black PS plastic



Item	D mm	H mm	L1 mm	L2 mm	Weight
144.0510	30.0	90.0	140.0	250.0	160
144.0511	30.0	90.0	180.0	270.0	275

Float

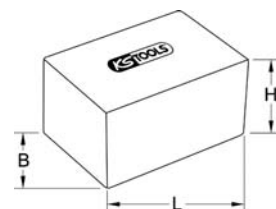
- Angularly
- Hard plastic



Item	L1 mm	L2 mm	Weight
144.0512	150.0	270.0	40

Jointing sponge

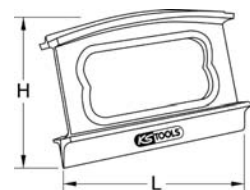
- Sponge rubber



Item	B mm	H mm	L mm	Weight
144.0514	100.0	80.0	150.0	60

Jointing rubber

- Out of one piece
- Plastic



Item	H mm	L mm	Weight
144.0570	90.0	135.0	65

SAND SIEVE

Sand sieve

- Round
- Ground out of iron wire
- With plastic edge



Item	Material	Mesh dimensions mm	D mm	H mm	Weight
144.0564	Plastic	1.90	420.0	100.0	890
144.0563	Plastic	2.30	420.0	100.0	900
144.0565	Plastic	2.80	420.0	100.0	940
144.0566	Wood	3.93	420.0	100.0	910



CONTAINERS

Plastic mixing tray

- Black
- Resistant to cold
- Environmentally friendly
- Plastic



Item		B mm	H mm	L mm	
140.0040	3	210.0	70.0	310.0	135
140.0041	13	320.0	150.0	460.0	600
140.0042	25	400.0	160.0	600.0	970

Solid rubber mixing tray

- Black
- Resistant to cold
- Extremely flexible
- Flexible
- Environmentally friendly



Item		B mm	H mm	L mm	
140.0043	13	320.0	150.0	460.0	0.64
140.0044	25	400.0	160.0	600.0	1.37
140.0045	40	500.0	195.0	685.0	7.17

Plaster bowl

- Conical arched form
- Extremely flexible
- Solid rubber



Item		D1 mm	D2 mm	H mm	
999.2034	0.75	70.0	125.0	95.0	120

Plastic bucket

- Black
- With scale marking
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 5.3 mm
- Plastic



Item		D1 mm	D2 mm	H mm	
140.0036	11	220.0	300.0	240.0	520

Plastic bucket

- Black
- With scale marking
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 6.3 mm
- With reinforced handle eyelets
- Plastic



Item		D1 mm	D2 mm	H mm	
140.0035	11	220.0	300.0	240.0	520

Plastic bucket

- Black
- With scale marking
- Flexible
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 6.3 mm
- Soft plastic



Item		D1 mm	D2 mm	H mm	
140.0037	11	220.0	300.0	240.0	640

Solid rubber bucket

- Black
- Extremely flexible
- Resistant to cold
- With steel handle Ø 6.3 mm
- Solid rubber



Item		D1 mm	D2 mm	H mm	
140.0038	12	205.0	300.0	265.0	1.76

MARKING TOOLS

Marking cord

- Ideal for marking - to use also as a plumb line
- 25 m chalk line
- With cranked handle
- Includes 150 g marking chalk
- Stable plastic housing



Item		Item	
300.0080		300.0082	
			280

Bricklayers chalk line

- Red powder coating
- Special steel



Item	D mm	L mm	kg
300.0092	50.0	60.0	600
300.0094	55.0	65.0	800
300.0095	60.0	70.0	1000

Cast iron screw clamp

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- High standing stability
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Cast iron fixed and moveable heads
- Zinc coated



Item	Max span depth mm	Max span width mm	kg
145.0101	80.0	160.0	0.73
145.0109	100.0	250.0	1.40
145.0112	120.0	300.0	1.60
145.0117	120.0	400.0	1.76
145.0119	120.0	600.0	2.12
145.0126	120.0	1000.0	3.70
145.0132	120.0	1500.0	4.89

Cast iron screw clamp

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- High standing stability
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated



Item	Max span depth mm	Max span width mm	kg
145.0201	50.0	100.0	0.18
145.0209	80.0	160.0	0.50
145.0212	120.0	300.0	1.70
145.0219	120.0	250.0	1.23
145.0228	120.0	400.0	1.91
145.0230	120.0	600.0	2.33
145.0232	120.0	1000.0	3.75

Steel screw clamp with T-handle

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- With sliding bar through locking handle
- High standing stability
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated



Item	Max span depth mm	Max span width mm	kg
145.0301	80.0	160.0	0.50
145.0311	120.0	250.0	1.23
145.0312	120.0	300.0	1.70
145.0320	120.0	400.0	1.91
145.0322	120.0	600.0	2.33
145.0324	120.0	1000.0	3.75

Steel lever clamp with quick release

- Ideally for steel and general construction
- For positive and strong clamping by hand operation
- Double-T-profile rail with rear dovetailing
- With sliding bar through locking handle
- High standing stability
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated



Item	Max span depth mm	Max span width mm	kg
145.0402	80.0	160.0	0.53
145.0412	120.0	250.0	1.50
145.0415	120.0	300.0	1.90
145.0418	120.0	400.0	2.40
145.0420	120.0	600.0	2.83
145.0421	120.0	800.0	3.64

Carpenters pencil

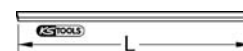
- Flat oval form



Item	Colour code	Lead	L mm	kg
300.0070	●	HB	250.0	10

Mason pencil

- Flat oval form



Item	Colour code	Lead	L mm	kg
300.0071	●	H	250.0	10

Pencil

- For the marking of damp surfaces
- Flat oval form



Item	Colour code	Lead	L mm	Weight
300.0072		HB	250.0	10

Pencil

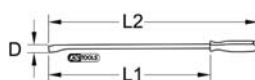
- For the marking of smooth surfaces such as glass, plastic and metal
- Flat oval form



Item	Colour code	Lead	L mm	Weight
300.0073		H	250.0	10

Pry bar

- Best suited for and breakdown and installation work
- With single component handle
- Hardened
- Chrome molybdenum



Item	D mm	L1 mm	L2 mm	Weight
911.8101	11.0	115.0	200.0	130
911.8102	15.0	185.0	300.0	220
911.8103	18.0	320.0	450.0	420
911.8104	18.0	470.0	600.0	560

Pry bar sets

- Best suited for and breakdown and installation work
- With single component handle
- Hardened
- Chrome molybdenum



Item	Weight
911.8100	4 pcs 11 x 115 mm - 15 x 185 mm - 18 x 320 mm - 18 x 470 mm 1.33

Sanding block with sponge rubber backing

- Accepts emery and sandpaper etc
- Moulded handle ensures a comfortable grip
- Ideally suited for working on surfaces
- Clamping clips made from stainless steel
- Special plastic



Item	L mm	B mm	Weight
515.3095	210.0	105.0	330

CHISELS

Pointed chisel

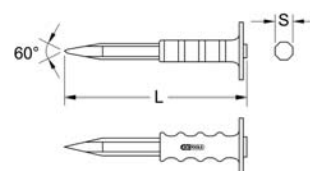
- DIN 7256
- 8-point
- Tip can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	S mm	Weight
162.0231	200.0	16,0	162.0445 280
162.0232	250.0	16,0	162.0445 360
162.0233	300.0	18,0	162.0446 560
162.0234	350.0	18,0	162.0446 660
162.0235	400.0	20,0	162.0447 940
162.0236	500.0	20,0	162.0447 1200
162.0237	600.0	20,0	162.0447 1480
162.0238	800.0	20,0	162.0447 1960
162.0239	1000.0	20,0	162.0447 2440

Pointed chisel with hand grip

- DIN 7256
- 8-point
- Tip can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	S mm	Weight
162.0242	250.0	16,0	162.0445 360
162.0243	300.0	18,0	162.0446 560
162.0244	350.0	18,0	162.0446 660
162.0245	400.0	20,0	162.0447 940
162.0246	500.0	20,0	162.0447 1200
162.0247	600.0	20,0	162.0447 1480
162.0248	800.0	20,0	162.0447 1960
162.0249	1000.0	20,0	162.0447 2440

Pointed chisel

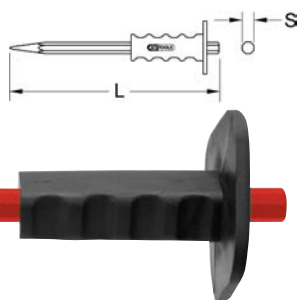
- 8-point
- Quenched and tempered
- Tip can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	S mm	Weight
156.0511	250.0	16,0	162.0445 390
156.0512	300.0	16,0	162.0445 400
156.0513	350.0	16,0	162.0445 450
156.0514	400.0	16,0	162.0445 660

Pointed chisel with hand grip

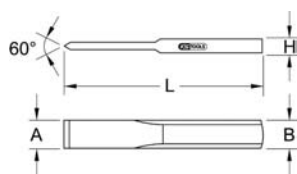
- 8-point
- Quenched and tempered
- Tip can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	S mm		
156.0515	250.0	16,0	530	
156.0516	300.0	16,0	620	
156.0517	350.0	16,0	710	
156.0518	400.0	16,0	790	

Slitting chisel

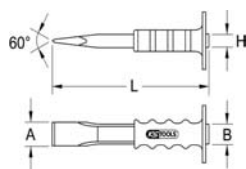
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	A mm	B mm	H mm		
162.0131	230.0	26.0	26.0	7.0	162.0441	285

Slitting chisel with hand grip

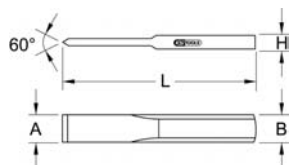
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	A mm	B mm	H mm		
162.0141	230.0	26.0	26.0	7.0	162.0443	285

Panel beaters slitting chisel, extra thin

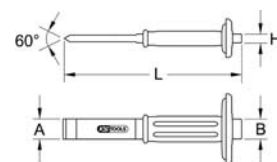
- Flat oval form
- Extra thin
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	A mm	B mm	H mm		
162.0421	240.0	26.0	26.0	7.0	162.0443	260

Slitting chisel with hand grip

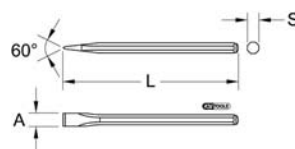
- Flat oval form
- Extra thin
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



Item	L mm	A mm	B mm	H mm		
162.0471	240.0	26.0	26.0	7.0	162.0443	370

Flat chisel

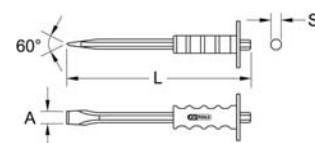
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	S mm		
156.0531	250.0	24.0	16,0	162.0445	410
156.0532	300.0	24.0	16,0	162.0445	430
156.0533	350.0	24.0	16,0	162.0445	450
156.0534	400.0	26.0	16,0	162.0445	680

Flat chisel with hand grip

- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	S mm		
156.0535	250.0	20.0	16,0	640	
156.0536	300.0	22.0	16,0	650	
156.0537	350.0	22.0	16,0	710	
156.0538	400.0	22.0	16,0	790	



Chisel display stand

- 8-point
- Quenched and tempered
- Tip and blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel
- In display stand



Item				kg
156.0500	48 pcs	Chisel display stand		23.00
6 x		250 x 16 mm		
12 x		300 x 16 mm		
6 x		400 x 16 mm		
6 x		250 x 16 mm		
12 x		300 x 16 mm		
6 x		400 x 16 mm		

Pointed chisel

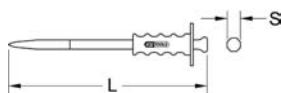
- Round
- Quenched and tempered
- Tip can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	S mm		kg
156.0521	250.0	14,0	-	260
156.0522	300.0	16,0	162.0445	390
156.0523	350.0	16,0	162.0445	480
156.0524	400.0	16,0	162.0445	550

Pointed chisel with hand grip

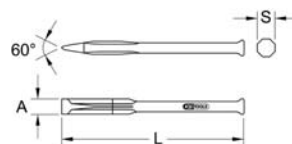
- Round
- Quenched and tempered
- Tip can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	S mm	kg
156.0525	250.0	14,0	420
156.0526	300.0	16,0	540
156.0528	400.0	16,0	700

Flat chisel

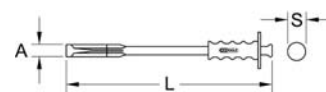
- Round
- Quenched and tempered
- Tip can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	S mm		kg
156.0541	250.0	20.0	14,0	-	280
156.0542	300.0	22.0	16,0	162.0445	430
156.0544	400.0	22.0	16,0	162.0445	580

Flat chisel with hand grip

- Round
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	S mm	kg
156.0545	250.0	20.0	14,0	440
156.0546	300.0	22.0	16,0	570
156.0548	400.0	22.0	16,0	740

Chisel display stand

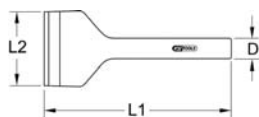
- Round
- Quenched and tempered
- Tip and blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel
- In display stand



Item				kg
156.0505	48 pcs	Chisel display stand		23.00
6 x		250 x 14 mm		
12 x		300 x 16 mm		
6 x		400 x 16 mm		
6 x		250 x 14 mm		
12 x		300 x 16 mm		
6 x		400 x 16 mm		

Bolster chisel

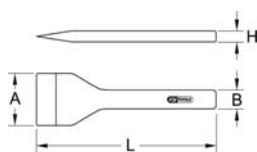
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft gold lacquer
- Carbon manganese silicon steel



Item	L1 mm	L2 mm	B mm		
162.0431	200.0	60.0	15x18	-	500
162.0432	200.0	80.0	15x20	-	600
162.0433	220.0	100.0	18x22	-	750
162.0434	220.0	120.0	18x22	-	900

Jointing chisel

- Flat oval
- Quenched and tempered
- Blade can be resharpened
- Shaft powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	B mm	H mm		
156.0570	205.0	50.0	24.0	12.0	-	300
156.0571	215.0	70.0	24.0	12.0	-	400

Pointed chisel

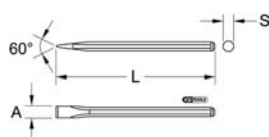
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	S mm		
156.0550	150.0	10.0	-	60
156.0551	200.0	10.0	-	100

Flat chisel

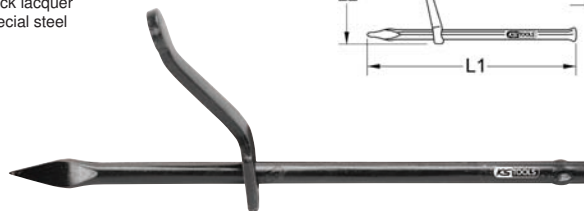
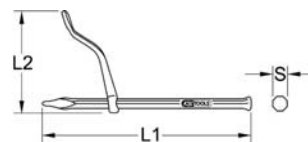
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



Item	L mm	A mm	S mm		
156.0556	200.0	14.0	10.0	-	110
156.0557	250.0	14.0	10.0	-	150

Plasterers hook

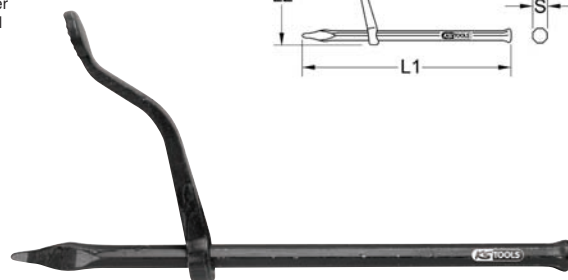
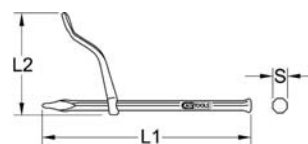
- Round
- For clamping of floorboards
- Quenched and tempered
- Black lacquer
- Special steel



Item	L1 mm	L2 mm	S mm		
156.0560	250.0	125.0	10.0	-	250
156.0561	300.0	130.0	10.0	-	270

Plasterers hook

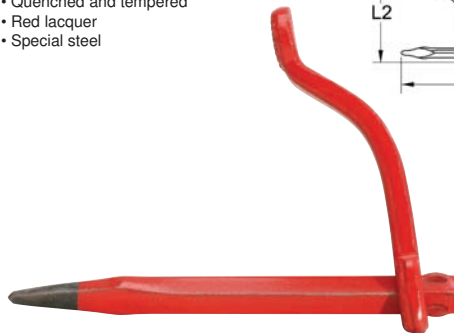
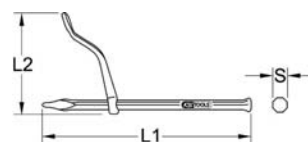
- 8-point
- For clamping of floorboards
- Quenched and tempered
- Black lacquer
- Special steel



Item	L1 mm	L2 mm	S mm		
156.0562	250.0	125.0	10.0	-	270
156.0563	300.0	125.0	10.0	-	300

Plasterers hook

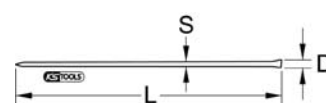
- 4-point
- For clamping of floorboards
- Quenched and tempered
- Red lacquer
- Special steel



Item	L1 mm	L2 mm	S mm		
156.0568	250.0	125.0	10.0	-	250
156.0569	300.0	125.0	10.0	-	270

Crow bar

- 8-point
- Quenched and tempered
- Red powder coating
- Special steel



Item	D mm	L m	S mm		
156.0595	50.0	1.5	25.0	-	4.84
156.0596	50.0	1.8	25.0	-	5.89
156.0597	50.0	1.3	25.0	-	7.07

Crow bar

- 8-point
- Quenched and tempered
- Red powder coating
- Special steel



Item	D1 mm	D2 mm	L m	S mm		
156.0575	105.0	25.0	1.6	25,0	-	6.21
156.0576	105.0	25.0	1.8	25,0	-	7.94

Crow bar

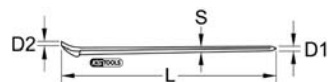
- 6-point
- Quenched and tempered
- Red powder coating
- Forged
- Special steel



Item	D1 mm	D2 mm	L m	S mm		
156.0590	30.0	37.0	0.5	19,0	-	1.16
156.0591	32.0	40.0	0.6	19,0	-	1.40
156.0592	37.0	40.0	0.7	19,0	-	1.56
156.0593	38.0	45.0	0.8	19,0	-	1.95
156.0594	38.0	45.0	1.0	19,0	-	3.27

Lever bar

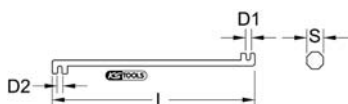
- 4-point
- Quenched and tempered
- Black lacquer
- Special steel



Item	D1 mm	D2 mm	L m	S mm		
156.0598	22.0	35.0	1.8	37,0	-	10.00

Steel reinforcement pry bar

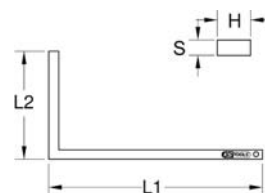
- Round
- For bending and aligning of steel reinforcement and armouring rod
- Quenched and tempered
- Special steel



Item	D1 mm	D2 mm	L mm	S mm		
118.3120	6.0	8.0	375.0	11,0	-	0.32
118.3121	8.0	10.0	465.0	12,0	-	0.55
118.3122	10.0	12.0	560.0	14,0	-	0.79
118.3123	14.0	16.0	650.0	16,0	-	1.02

Carpenters square

- With hanging hole
- Without head stock
- Red powder coating
- Quenched and tempered
- Special steel

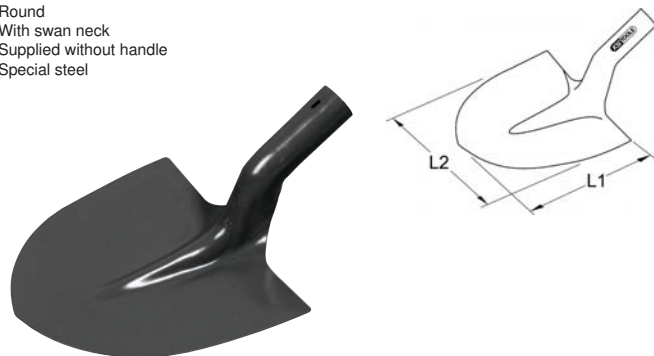


Item	L1 mm	L2 mm	H mm	S mm	
300.0250	500.0	260.0	35.0	1,5	0.84
300.0251	600.0	280.0	35.0	1,5	1.07
300.0252	800.0	320.0	35.0	1,5	1.37
300.0253	1000.0	380.0	35.0	1,5	1.70

SHOVEL & BROOM

Shovel

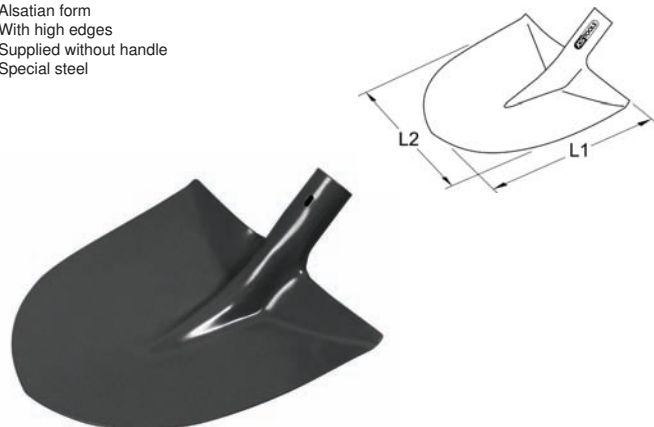
- Round
- With swan neck
- Supplied without handle
- Special steel



Item	L1 mm	L2 mm	Handle	
144.0801	270.0	270.0	144.0860	1.06
144.0802	290.0	290.0	144.0860	1.17
144.0803	310.0	310.0	144.0860	1.30

Shovel

- Alsatian form
- With high edges
- Supplied without handle
- Special steel



Item	L1 mm	L2 mm	Handle	
144.0811	280.0	280.0	144.0861	1.13

Shovel

- Square
- With swan neck
- Supplied without handle
- Special steel



Item	L1 mm	L2 mm	Handle	kg
144.0806	250.0	250.0	144.0860	1.26

Pick axe

- Round
- Supplied without handle
- Special steel



Item	D mm	L mm	Handle	Handle, spare	kg
144.0901	55.0	570.0	144.0960	144.0962	2.50

Pick-axe

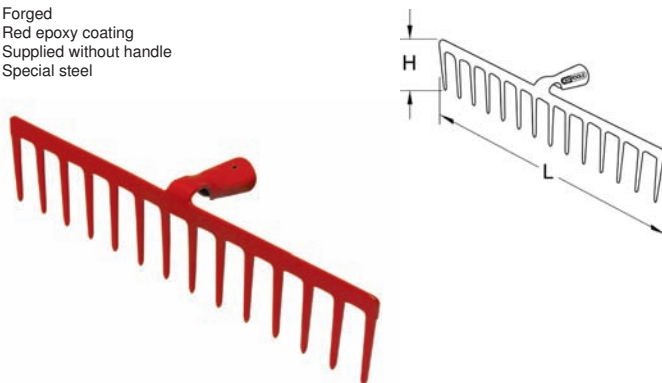
- Beveled
- Supplied without handle
- Special steel



Item	D mm	L mm	Handle	Handle, spare	kg
144.0905	57.0	570.0	144.0961	-	2.50

Rake

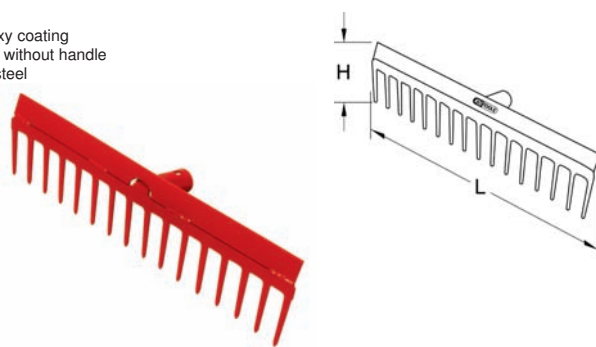
- Forged
- Red epoxy coating
- Supplied without handle
- Special steel



Item	Tooth	H mm	L mm	Handle	kg
144.0711	14	100.0	400.0	144.0780	715
144.0712	16	100.0	460.0	144.0780	800

Rake with scraper iron for concrete and bitumen

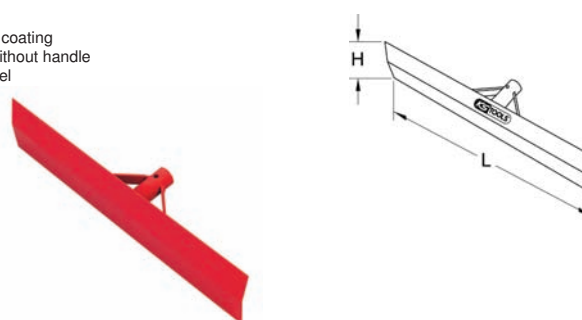
- Forged
- Red epoxy coating
- Supplied without handle
- Special steel



Item	Tooth	H mm	L mm	Handle	kg
144.0715	16	120.0	460.0	144.0780	1.07

Bitumen scraper iron

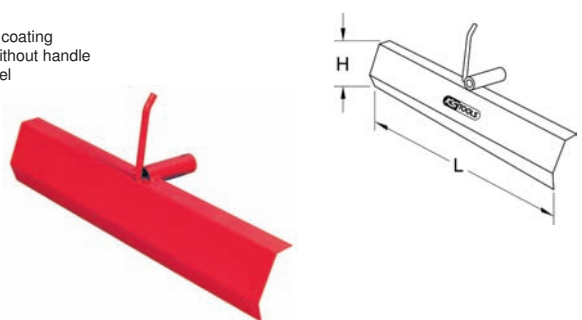
- Forged
- Red epoxy coating
- Supplied without handle
- Special steel



Item	H mm	L mm	Handle	kg
144.0730	100.0	480.0	144.0781	1.12

Concrete scraper iron

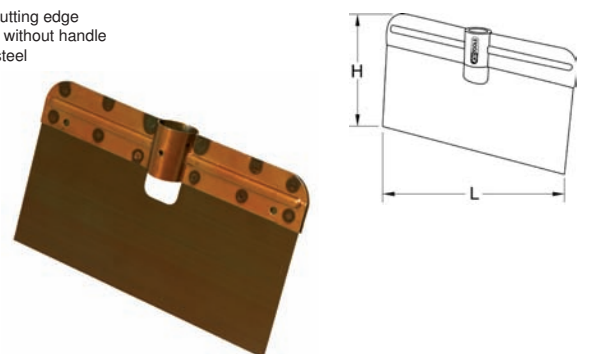
- Forged
- Red epoxy coating
- Supplied without handle
- Special steel



Item	H mm	L mm	Handle	kg
144.0720	105.0	500.0	144.0781	1.07

Concrete scraper iron

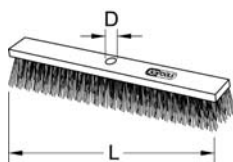
- Forged cutting edge
- Supplied without handle
- Special steel



Item	H mm	L mm	Handle	kg
144.0735	170.0	300.0	144.0860	690

Shop floor broom

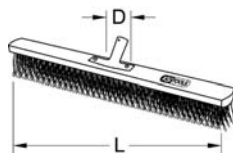
- With red plastic bristles
- Best suited for yard and street
- Also in for use in the wet and snow
- Supplied without wooden handle



Item	D mm	L mm	Handle	Weight
146.1030	22.0	300.0	146.0012	420
146.1040	22.0	400.0	146.0012	440
146.1050	22.0	500.0	146.0012	470
146.1060	22.0	600.0	146.0012	520

Shop floor broom

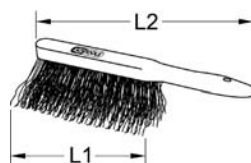
- With coco bristles
- Best suited for dry areas
- For inside and outside
- Supplied without wooden handle



Item	D mm	L mm	Handle	Weight
146.2080	24.0	290.0	146.0014	300
146.2030	24.0	300.0	146.0014	580
146.2040	24.0	400.0	146.0014	630
146.2050	24.0	500.0	146.0014	670
146.2060	24.0	600.0	146.0014	700
146.2070	24.0	1000.0	146.0014	1250

Handbrush

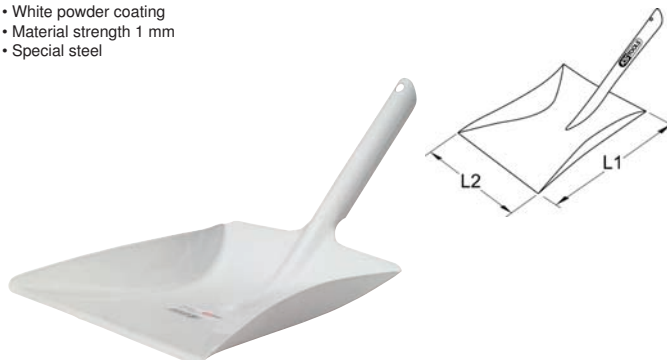
- With wood handle
- Best suited for dry areas
- For inside and outside
- Coco bristles



Item	L1 mm	L2 mm	Handle	Weight
146.3005	150.0	285.0	-	145

Dustpan

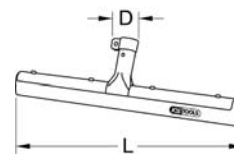
- White powder coating
- Material strength 1 mm
- Special steel



Item	L1 mm	L2 mm	Handle	Weight
146.3000	228.0	224.0	-	270

Floor squeegee

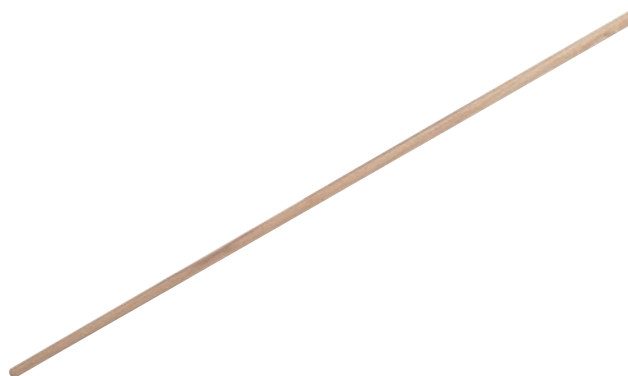
- With black foam rubber
- Zinc coated
- Supplied without wooden handle



Item	D mm	L mm	Handle	Weight
146.3033	22.0	330.0	146.0012	160
146.3043	22.0	450.0	146.0012	190
146.3055	22.0	550.0	146.0012	220
146.3075	22.0	750.0	146.0012	350

Wooden handle

- For workshop broom
- Wood



Item	D mm	L mm	Weight
146.0012	22.0	1200.0	420
146.0014	24.0	1500.0	650

item	page	item	page	item	page	item	page	item	page
1		114.0036	979	122.0010	958	129.0038	975	144.0214	998
101.1000	948	114.0150	980	122.0012	958	129.0040	975	144.0215	998
101.1001	952	115.0000	977	122.0014	958	129.0047	975	144.0222	998
101.1002	952	115.1000	977	122.0015	958	129.0050	975	144.0223	998
101.2000	948	115.1350	978	122.0016	958	129.0054	975	144.0224	998
101.5000	948	115.1351	978	122.0500	960	129.0060	975	144.0225	998
101.5000D	948	115.1352	978	122.0501	960	129.0063	975	144.0232	999
101.5016	948	115.2000	977	122.0525	960	129.0075	975	144.0233	999
101.5022	948	115.2001	977	122.0808	961	129.0076	975	144.0235	999
102.1000	948	115.3000	977	122.0810	961	129.0080	975	144.0237	999
103.1000	948	115.4000	977	122.0821	961	129.0201	975	144.0238	999
103.2002	952	115.7000	977	122.1006	957	129.0202	975	144.0240	999
103.5000	949	115.8000	977	122.1008	957	129.0203	975	144.0242	1000
103.5000D	949	115.8500	977	122.1010	957	129.0204	975	144.0313	999
103.5000i	949	115.8501	977	122.1012	957	129.0205	975	144.0323	999
103.5000iD	949	115.8502	977	122.1014	957	129.0206	975	144.0333	999
103.5001	952	115.8510	978	122.1015	957	129.0207	975	144.0350	1000
103.5002	952	116.0175	971	122.1016	957	129.0208	975	144.0351	1000
103.5005	952	116.0185	972	122.1017	957	129.0209	975	144.0458	1000
103.5007	952	116.0186	972	122.1018	957	129.0210	975	144.0461	1000
103.5050	950	116.0190	971	122.1019	957	129.0211	975	144.0462	1000
103.5050D	950	116.0195	973	122.1020	957	129.0212	975	144.0501	1000
103.5050i	950	116.0196	974	122.1021	957	129.0213	975	144.0505	1001
103.5050iD	950	116.1000	964, 978	122.1100	960	129.0214	975	144.0507	1001
104.2015	948	116.1002	964, 978	122.1400	961	130.0122	962	144.0510	1002
104.2016	948	116.1010	974	122.1460	962	130.0222	963	144.0511	1002
104.2022	948	116.1020	974	122.2100	970	130.3000	964	144.0512	1002
104.2028	948	116.1200	964, 978	122.2100D	970	130.3020	964	144.0514	1002
104.5000	949	116.2000	967	122.2101	969	130.3500	965	144.0520	1002
104.5002	949	116.2001	967	122.2102	969	130.6005	965	144.0521	1002
104.5005	952	116.2002	967	122.2103	969	131.0001	968	144.0525	1002
104.5022	949	116.2012	969	122.2104	969	131.0002	968	144.0526	1002
104.5050	949	116.2030	966	122.2105	969	131.0500	968	144.0530	1002
104.5060	949	116.2036	968	122.2106	969	131.0800	968	144.0531	1002
105.1000	952	116.2037	968	122.2107	969	131.1000	968	144.0532	1002
105.2000	952	116.2050	966	122.2108	969	132.0500	968	144.0540	1001
105.3000	952	116.2051	967	122.2200	961	132.0800	968	144.0541	1001
105.3001	952	116.2054	967	122.2201	961	136.1100	974	144.0545	1001
105.3005	953	116.2055	967	122.2260	962	136.1105	975	144.0546	1001
110.1000	951	116.2056	967	122.2290	962	140.0035	1003	144.0550	1001
110.1000i	951	116.2057	967	122.3006	968	140.0036	1003	144.0551	1001
110.1002	952	116.2059	967	122.3008	968	140.0037	1003	144.0552	1001
110.1014	951	116.2060	967	122.3010	968	140.0038	1003	144.0563	1002
110.1014i	951	116.2065	967	122.3012	968	140.0040	1003	144.0564	1002
110.1015	952	116.2080	966	122.3016	969	140.0041	1003	144.0565	1002
110.1016	952	116.2086	969	122.3018	969	140.0042	1003	144.0566	1002
111.1000	979	116.2087	969	122.3020	969	140.0043	1003	144.0570	1002
111.1500	979	116.2088	969	122.3022	969	140.0044	1003	144.0580	1001
111.2000	979	116.2089	967	122.9990	963	140.0045	1003	144.0581	1001
111.3000	979	116.2090	967	122.9991	963	140.1004	968	144.0582	1001
111.3100	980	116.2091	967	122.9992	963	140.1015	968	144.0583	1001
111.3200	980	116.2092	967	125.1000	963	144.0110	998	144.0590	1001
111.3300	980	116.2093	967	126.1000	963	144.0111	998	144.0591	1001
112.1000	979	116.2095	966	126.2000	963	144.0112	998	144.0592	1001
112.1500	979	116.2096	967	129.0012	975	144.0113	998	144.0593	1001
112.2000	979	116.5000	963	129.0013	975	144.0114	998	144.0622	1000
113.0500	979	116.5010	964	129.0015	975	144.0115	998	144.0624	1000
113.1000	979	116.6000	965	129.0016	975	144.0122	998	144.0625	1000
113.1500	979	116.6100	965	129.0018	975	144.0123	998	144.0626	1000
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113.3000	979	118.3120	1009	129.0025	975	144.0133	998	144.0715	1010
114.0008	979	118.3121	1009	129.0026	975	144.0135	998	144.0720	1010
114.0010	979	118.3122	1009	129.0028	975	144.0158	1000	144.0730	1010
114.0012	979	118.3123	1009	129.0030	975	144.0210	998	144.0735	1010
114.0014	979	120.1000	957	129.0032	975	144.0211	998	144.0801	1009
114.0018	979	120.1001	957	129.0035	975	144.0212	998	144.0802	1009
114.0024	979	120.1050	957	129.0037	975	144.0213	998	144.0803	1009

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144.0806	1010	156.0535	1006	201.1235	953	203.0122	957	222.0750	951, 982
144.0811	1009	156.0536	1006	201.2212	953	203.0210	957	222.0750-1	950
144.0901	1010	156.0537	1006	201.2215	953	203.0213	957	222.0751	952
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145.0119	1004	156.0546	1007	202.1000R	955	203.0314	957	222.1101	983
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145.0132	1004	156.0550	1008	202.1101	954	203.0320	957	222.1250-1	950
145.0201	1004	156.0551	1008	202.1102	954	203.1010	959	222.1251	952
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145.0212	1004	156.0557	1008	202.1104	954	203.1014	959	222.2051	981
145.0219	1004	156.0560	1008	202.1105	955	203.1015	959	222.2052	983
145.0228	1004	156.0561	1008	202.1107	955	203.1016	959	222.2060	981
145.0230	1004	156.0562	1008	202.1108	955	203.1018	959	222.2061	983
145.0232	1004	156.0563	1008	202.1201	955	203.1020	959	222.3100	982
145.0301	1004	156.0568	1008	202.1202	955	203.1022	959	222.3101	983
145.0311	1004	156.0569	1008	202.1203	955	203.1026	959	222.5001	984
145.0312	1004	156.0570	1008	202.1204	955	203.1032	959	222.5002	984
145.0320	1004	156.0571	1008	202.1205	955	203.1101	959	222.5003	984
145.0322	1004	156.0575	1009	202.1206	955	203.1200	958	222.5004	984
145.0324	1004	156.0576	1009	202.1207	955	203.1201	958	222.5005	984
145.0402	1004	156.0590	1009	202.1210	955	203.1202	958	222.5006	984
145.0412	1004	156.0591	1009	202.1212	955	203.1210	958	222.5007	984
145.0415	1004	156.0592	1009	202.1214	955	203.1212	958	222.5008	984
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145.0420	1004	156.0594	1009	202.1216	955	203.1215	958	222.5010	984
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146.0014	1011	156.0597	1008	202.1228	955	203.1220	958	222.5014	984
146.1030	1011	156.0598	1009	202.1232	955	203.1222	958	222.5050	983
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146.1050	1011	160.0235	976	202.1236	955	203.1231	958	222.5102	984
146.1060	1011	162.0131	1006	202.1237	955	203.1232	958	222.5104	984
146.2030	1011	162.0141	1006	202.1242	955	203.1233	958	222.5105	984
146.2040	1011	162.0231	1005	202.2010	956	203.1234	958	222.5106	984
146.2050	1011	162.0232	1005	202.2012	956	203.1400	959	222.5110	983
146.2060	1011	162.0233	1005	202.2014	956	204.1000	981	222.5200	983
146.2070	1011	162.0234	1005	202.2015	956	204.2000	981	222.5202	984
146.2080	1011	162.0235	1005	202.2016	956	205.2011	953	222.5210	984
146.3000	1011	162.0236	1005	202.2018	956	205.2012	953	222.5211	984
146.3005	1011	162.0237	1005	202.2022	956	205.2013	953	222.5212	984
146.3033	1011	162.0238	1005	202.2028	956	205.2020	952	222.5213	984
146.3043	1011	162.0239	1005	202.2035	956	205.2500	952	3	
146.3055	1011	162.0242	1005	202.2042	956	207.1016	985	300.0070	1004
146.3075	1011	162.0243	1005	202.2100	956	207.1020	985	300.0071	1004
156.0500	1007	162.0244	1005	202.2101	956	207.1025	985	300.0072	1005
156.0505	1007	162.0245	1005	203.0001	956	207.1032	985	300.0073	1005
156.0511	1005	162.0246	1005	203.0002	956	207.1040	985	300.0080	1003
156.0512	1005	162.0247	1005	203.0003	956	207.1050	985	300.0092	1004
156.0513	1005	162.0248	1005	203.0004	956	207.1063	985	300.0094	1004
156.0514	1005	162.0249	1005	203.0005	956	207.6500	985	300.0095	1004
156.0515	1006	162.0421	1006	203.0006	956	207.6501	985	300.0250	1009
156.0516	1006	162.0431	1008	203.0008	956	222.0001	981	300.0251	1009
156.0517	1006	162.0432	1008	203.0010	956	222.0002	981	300.0252	1009
156.0518	1006	162.0433	1008	203.0012	956	222.0003	981	300.0253	1009
156.0521	1007	162.0434	1008	203.0014	956	222.0004	981	5	
156.0522	1007	162.0471	1006	203.0015	956	222.0005	981	514.1135	969
156.0523	1007	2		203.0016	956	222.0011	983	515.3095	1005
156.0524	1007	201.1208	953	203.0018	956	222.0012	983	518.0405	970
156.0525	1007	201.1210	953	203.0022	956	222.0013	983	518.0406	970
156.0526	1007	201.1212	953	203.0110	957	222.0014	983	518.0408	970
156.0528	1007	201.1215	953	203.0112	957	222.0015	983	518.0410	970
156.0531	1006	201.1216	953	203.0114	957	222.0660	951, 982	518.0412	970
156.0532	1006	201.1218	953	203.0116	957	222.0660-1	950	518.0414	970
156.0533	1006	201.1222	953	203.0118	957	222.0665	952	518.0416	970
156.0534	1006	201.1228	953	203.0120	957	222.0666	952	518.0418	970

item	page	item	page	item	page	item	page	
518.0420	970	900.2267	991	900.6022	994	914.0012	980	
518.0421	970	900.2275	991	900.6025	994	914.0014	980	
518.0424	970	900.2276	991	900.6035	994	914.0016	980	
518.0425	970	900.2277	991	900.6036	994	914.0020	980	
518.0427	970	900.2278	992	900.6040	994	950.0500	987	
518.0430	970	900.2279	991	900.6050	995	987.0600	962	
518.0450	970	900.2280	991	900.6055	995	995.6500	962	
518.0455	970	900.2283	992	900.6060	995	999.2034	1003	
518.0460	970	900.2284	992	900.6061	995			
6		900.2288	992	900.6062	995			
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610.3351	986	900.2299	992	900.6205	995			
610.3399	986	900.2321	992	900.6206	995			
9		900.2322	992	900.6210	995			
900.1916	988	900.2325	993	900.6211	995			
900.1917	988	900.2335	991	900.6212	995			
900.1922	989	900.2336	991	900.6222	995			
900.1923	989	900.2337	991	900.6230	995			
900.1990	987	900.2338	991	900.6231	995			
900.1995	988	900.2345	991	900.6232	995			
900.1996	987	900.2346	991	900.6233	995			
900.2000	988	900.2347	992	900.9975	993			
900.2100	993	900.2348	992	900.9978	993			
900.2101	993	900.2349	991	902.1004	975			
900.2110	993	900.2350	991	902.1005	976			
900.2112	993	900.2351	991	902.1100	959			
900.2113	993	900.2352	991	902.1101	960			
900.2120	993	900.2353	991	902.1120	960			
900.2121	993	900.2361	991	902.2004	976			
900.2154	991	900.2363	992	902.3004	976			
900.2158	992	900.2365	991	903.1000	987			
900.2159	993	900.2366	991	903.1000-1	987			
900.2161	992	900.2367	991	903.1000-2	987			
900.2162	993	900.2371	991	903.1002	987			
900.2163	992	900.2372	991	903.1002-1	987			
900.2164	991	900.2379	991	903.1002-2	987			
900.2165	992	900.2380	991	903.1005	987			
900.2169	991	900.2382	992	903.1005-1	987			
900.2170	991	900.2383	992	903.1005-2	987			
900.2171	991	900.2390	991	903.3300	962			
900.2172	991	900.2415	993	903.3301	962			
900.2175	991	900.2416	993	903.3302	962			
900.2176	991	900.2417	993	903.3303	962			
900.2177	991	900.2422	993	903.3304	962			
900.2178	991	900.2431	990	903.3305	962			
900.2183	992	900.2433	990	903.5900	986			
900.2184	992	900.2441	990	903.5901	986			
900.2185	992	900.2442	990	903.5902	985			
900.2186	992	900.2451	990	903.5904	986			
900.2187	992	900.2452	990	903.5905	985			
900.2188	992	900.2522	993	903.5910	986			
900.2203	993	900.2523	993	903.6000	986			
900.2221	992	900.2780	988	907.2261	1000			
900.2222	992	900.2787	990	907.2262	1000			
900.2233	991	900.2788	990	907.2263	1000			
900.2234	991	900.2790	989	907.2264	1000			
900.2235	991	900.2791	990	907.2265	1000			
900.2250	991	900.2799	990	911.8100	1005			
900.2251	991	900.5019	984	911.8101	1005			
900.2252	991	900.5029	984	911.8102	1005			
900.2253	991	900.6000	994	911.8103	1005			
900.2254	991	900.6010	994	911.8104	1005			
900.2255	991	900.6011	994	914.0003	980			
900.2256	991	900.6012	994	914.0004	980			
900.2257	991	900.6015	994	914.0005	980			
900.2260	991	900.6016	994	914.0006	980			
900.2263	992	900.6017	994	914.0008	980			
900.2265	991	900.6020	994	914.0010	980			
900.2266	991	900.6021	994	914.0011	980			



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