

Universal, compact electric tool for cold bending of pipes and tubes up to 180°. Can be used anywhere, without vice. For trade and industry. For the building site and the workshop.

Hard, half-hard, soft copper tubes also thin-wall	Ø 10–35 mm Ø 3/8–1 3/8"
Coated soft copper tubes, also thin-wall	Ø 10–18 mm
Thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1	Ø 3/8–1 3/8"
Pipes of press fitting systems made of stainless steel	Ø 12–28 mm
Carbon steel (coated)	Ø 12–28 mm
Soft precision steel tubes	Ø 10–28 mm
Steel pipes EN 10255	Ø 1/4–3/4"
Electric conduit EN 50086	Ø 16–32 mm
Multi-layer composite tubes	Ø 14–40 mm

REMS Curvo – wrinkle-free bending. Universal for many pipe types. Instant use without setting. Fast and creep speed operation for precise bending. Rapid change of bending and back formers.

Universal use

For sanitary, heating, air conditioning, refrigerating and hydraulic applications. Specially suited for tubes of pressfitting systems, for hard and half-hard copper tubes and for thin-walled copper heating tubes according to EN 1057.

System advantage

Only one type of bending and back formers for REMS Akku-Curvo 22V, REMS Curvo, REMS Curvo 50 and REMS Sinus. Therefore simple, inexpensive stocking. No confusion possible.

Cost advantage

Bender cost recovered after a small number of bends. No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours. Higher safety thanks to fewer pipe joints.

Design

Compact, handy electric tool with integral absorption of torque during bending. Super light, drive unit only 8 kg. Can be used anywhere, anytime. No setting. Simple, effortless, fast working, e.g. 90° bends, Ø 22 mm in only 6 s. Fast and creep speed operation for precise bending. Overbend, double bend, tier bend, reversed bend possible. Height adjustable machine support as accessory.

Bending formers and back formers

Form and pressure resistant, in high-strength, high-slide, glass-fibre reinforced polyamide. Optimum matching of bending former and back former guarantees material-compatible gliding without cracks and creases. Angle scale 0 to 180° provided on each bending former and mark on the back former ensure precise bending. Rapid change of bending formers and back formers. Bending formers and back formers for different sizes, materials and bending radii (page 135).

Drive

Robust, maintenance-free gear. Final point safety in both directions through safety slipping clutch. Proven, powerful universal motor, 1000 W. Right and left-hand rotation. Stepless electronic safety switch for rapid and creep speed operation.

Bending lubricant

REMS bending spray ensures a permanent lubricating film for reducing energy expenditure and uniform bending. High-pressure-proof, acid-free, CFC-free, so ozone-harmless.



German Quality Product

Tested by electrosuisse >>>



Supply format

REMS Curvo Set. Electric pipe and tube bender Ø 10–40 mm, Ø ¼–1½", up to 180°. Hard, semi-hard, soft copper pipes, also thin-walled, Ø 10–35 mm, Ø ¾–1½", soft coated copper pipes, also thin-walled, Ø 10–18 mm, thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1 Ø ¾–1½", pipes of the press fitting systems of stainless steel Ø 12–28 mm, carbon steel, also coated, Ø 12–28 mm, soft precision steel pipes Ø 10–28 mm, steel pipes EN 10255 Ø ¼–¾", electrical installation pipes EN 50086 Ø 16–32 mm, composite tubes Ø 14–40 mm, etc. Drive unit with maintenance-free gear and safety slipping clutch, universal motor 230 V or 110 V, 50–60 Hz, 1000 W, stepless electronic safety switch, right and left-hand rotation, insert bolt. Bending formers and back formers. In sturdy steel case.

Description	Art.-No.
Set 15-18-22	580026
Set 15-18-22-28 ¹⁾	580027
Set 15-18-22-28 ²⁾	580036
Set 15-18-22-28 ³⁾	580035
Set 12-15-18-22	580020
Set 12-15-18-22-28 ¹⁾	580033
Set 12-15-18-22-28 ²⁾	580037
Set 15-22-28 ¹⁾	580022
Set 15-22-28 ²⁾	580040
Set 17-20-24	580023
Set 12-14-16-18-22	580021
Set 12-14-16-18-22-28 ¹⁾	580031
Set 12-14-16-18-22-28 ²⁾	580038
Set 14-16-18-22-28 ¹⁾	580028
Set 14-16-18-22-28 ²⁾	580039
Set ¾-½-¾-¾-¾"	580024
Set 16-20-26-32	580025
Set 16-20-25-32	580034
Set 20-25-32	580029
Set 32-40	580030
Basic-Pack (without bending and back formers)	580010

REMS Curvo Set delivered with the smaller radius bending and back former (except Art.-No. 580029 and 580030), see page 135.

¹⁾ Bending former and back former 28, R102, Art. No. 581070, for hard, semi-hard copper pipes, also thin-walled. See page 135.

²⁾ Bending former and back former 28, ¾" (DN 20), R102, Art. No. 581260, for hard copper pipes Ø 28 mm, Ø 1½", pipes of the press fitting systems of stainless steel/carbon steel Ø 28 mm, steel pipes ¾". See page 135.

³⁾ Bending former and back former 28, ¾" (DN 20), R114, Art. No. 581310, for hard, semi-hard copper pipes Ø 28 mm, pipes of the press fitting systems of stainless steel/carbon steel Ø 28 mm, steel pipes ¾". According to DVGW work sheet GW 392 for hard and semi-hard copper pipes Ø 28 mm minimum bending radius 114 mm necessary. Wall thickness ≥ 0.9 mm. See page 135.

Accessories

Description	Art.-No.
Bending formers and back formers see page 135.	
REMS Curvo drive unit	580000
Insert bolt	582036
REMS bending spray , 400 ml	140120
Steel case with insert	586000
Machine support 3B , height adjustable, on tripod	586100
Machine support WB , height adjustable, for mounting on work bench	586150



Basic-Pack



3B



WB

Universal, compact electric tool for cold bending of pipes and tubes up to 90°. Can be used anywhere, without vice. For trade and industry. For the building site and the workshop.

Steel pipes EN 10255 (DIN 2440)	Ø ¼–1¼"
Stainless steel pipes EN ISO 1127, EN 10217-1	Ø ½–1¼" s ≤ 2.6 mm
Hard, half-hard, soft copper tubes	Ø 10–42 mm
Thin-wall copper tubes	Ø 10–35 mm
Thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1	Ø ¾–1⅝"
Pipes of press fitting systems made of stainless steel	Ø 12–42 mm
Carbon steel, also coated	Ø 12–42 (28) mm
Multi-layer composite tubes	Ø 14–50 mm
Further materials, see REMS Curvo	



REMS Curvo 50 – wrinkle free bending of large pipes.

Universal use

For metalwork and in sanitary, heating, air conditioning, refrigeration and hydraulic applications. Specially suited for steel pipe EN 10255, pipe for pressfitting systems, for hard and half hard copper pipe and for thin-walled copper heating pipe according to EN 1057.

System advantage

Bending formers and back formers of REMS Akku-Curvo 22V, REMS Curvo and REMS Sinus (page 135) also fit in the REMS Curvo 50 drive machine with adaptor block 10–40, support 10–40. Therefore simple, inexpensive stocking. No confusion possible.

Cost advantage

Bender cost recovered after a small number of bends. No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours. Higher safety thanks to fewer pipe joints.

Design

Compact, handy electric tool with integral absorption of torque during bending. Can be used anywhere, anytime. No setting. Simple, effortless, fast working, e.g. 90° bends of steel pipe Ø 1¼" in only 37 s. Fast and creep speed operation for precise bending. Overbend, tier bend, reversed bend possible.

Bending formers and back formers

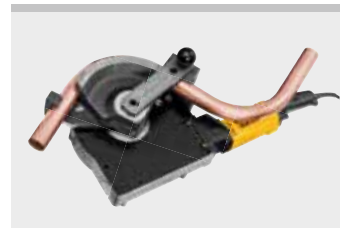
Optimum matching of bending former and back former guarantees material-compatible gliding without cracks and creases. Angle scale provided on each bending former and mark on the back former ensure precise bending. Rapid change of bending formers and back formers. Bending formers and back formers for different sizes, materials and bending radii (page 135). Bending formers and back formers REMS Curvo 50 (Ø 35 R 100, Ø 42 R 140, Ø 50 R 135, Ø 1" R 100, Ø 1¼" R 140): Form and pressure resistant bending formers in ductile iron and back formers in high-strength, high-slide glass-fibre reinforced polyamide.

Drive

Robust, maintenance-free gear. Final point safety in both directions through safety slipping clutch. Proven, powerful universal motor, 1000 W. Right and left-hand rotation. Stepless electronic safety switch for rapid and creep speed operation.

Bending lubricant

REMS bending spray ensures a permanent lubricating film for reducing energy expenditure and uniform bending. High-pressure-proof, acid-free. CFC-free, so ozone-harmless.



German Quality Product



Supply format

REMS Curvo 50 Basic-Pack. Electric pipe and tube bender Ø 10–50 mm, up to 90°. Steel pipes EN 10255 Ø ¼–1¼", stainless steel pipes EN ISO 1127, EN 10217-7, Ø ½–1¼", s ≤ 2.6 mm, hard, semi-hard, soft copper pipes, Ø 10–42 mm, thin-walled copper pipes Ø 10–35 mm, thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1 Ø ¾–1½", pipes of the press fitting systems of stainless steel Ø 12–42 mm, carbon steel Ø 12–42 mm, coated carbon steel Ø 12–28 mm, composite tubes Ø 14–50 mm, etc. Drive unit with maintenance-free gear and safety slipping clutch, universal motor 230 V or 110 V, 50–60 Hz, 1000 W, stepless electronic safety switch, right and left-hand rotation. Adaptor block 35–50, Support 35–50, insert bolt. In sturdy carrying case.

	Art.-No.	
	580110	

Other voltages on request.



Accessories

Description	Art.-No.	
Bending formers and back formers see page 135.		
REMS Curvo 50 drive unit	580100	
Adaptor block 35–50, Support 35–50 , for bending formers and back formers Ø 35 R 100, Ø 42 R 140, Ø 50 R 135, Ø 1" R 100, Ø 1¼" R 140 (see page 135).	582110	
Adaptor block 10–40, Support 10–40 , for bending formers and back formers REMS Curvo, REMS Akku-Curvo, REMS Sinus (see page 135).	582120	
Insert bolt	582036	
REMS bending spray , 400 ml	140120	
Carrying case with practical handles	590160	
Steel case with insert for each bending former and back former R 100 and R 135/R 140, 90°	586012	



Universal, compact electric tool for cold bending of pipes up to 180°. Can be used anywhere, without vice. For trade and industry. For the building site and the workshop. Li-Ion 22 V Technology. For battery and corded operation.

Hard, half-hard, soft copper tubes also thin-wall	Ø 10–28 mm Ø 3/8–1 1/8"
Coated soft copper tubes, also thin-wall	Ø 10–18 mm
Thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1	Ø 3/8–1 1/8"
Pipes of press fitting systems made of stainless steel	Ø 12–28 mm
Carbon steel, also coated	Ø 12–28 mm
Soft precision steel tubes	Ø 10–28 mm
Steel pipes EN 10255	Ø 1/4–3/4"
Electric conduit EN 50086	Ø 16–25 mm
Multi-layer composite tubes	Ø 14–40 mm

REMS Akku-Curvo 22 V – wrinkle-free bending of pipes. Universal for many pipe types. Ready to use immediately without setting. Fast and creep speed with immediate stop for precise bending. Quick change of bending and back formers. Li-Ion 21.6V, 5.0Ah battery, for approx. 90 pipe bends of the stainless steel Ø 22 mm press fitting systems with one battery charge.

Universal use

For sanitary, heating, air conditioning, refrigerating and hydraulic applications. Mains independent. Specially suited for tubes of pressfitting systems, for hard and half-hard copper tubes and for thin-walled copper heating tubes according to EN 1057.

System advantage

Only one type of bending and back formers for REMS Akku-Curvo 22V, REMS Curvo, REMS Curvo 50 and REMS Sinus. Therefore simple, inexpensive stocking. No confusion possible.

Cost advantage

Bender cost recovered after a small number of bends. No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours. Higher safety thanks to fewer pipe joints.

Design

Compact, handy electric tool with integral absorption of torque during bending. Super light, drive machine with battery pack weights only 8.5 kg. Electronic charging status check with low discharge protection. Practical D-shaped handle with soft grip. Can be used anywhere, anytime. No setting. Simple, effortless, fast working, e.g. 90° bend Ø 22 mm only 6 s. Fast and creep speed with immediate stop for precise bending. Overbend, double bend, tier bend, reversed bend possible. Height adjustable machine support as accessory.

Bending formers and back formers

Form and pressure resistant, in high-strength, high-slide, glass-fibre reinforced polyamide. Optimum matching of bending former and back former guarantees material-compatible gliding without cracks and creases. Angle scale 0 to 180° provided on each bending former and mark on the back former ensure precise bending. Rapid change of bending formers and back formers. Bending formers and back formers for different sizes, materials and bending radii (page 135).

Drive

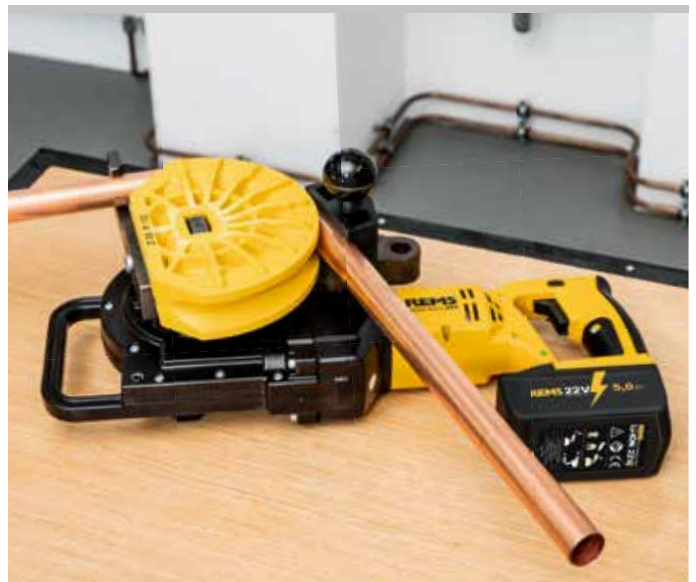
Robust, maintenance-free gear. Final point safety in both directions through safety slipping clutch. Powerful battery motor 21.6 V, with large power reserve, 500 W output. Right and left-hand rotation. Stepless electronic safety switch for fast and creep speed, with immediate stop. Machine status check with overload protection of the drive unit against too high currents, with overheating protection by motor temperature monitoring (NTC), with electronic battery charging status check with charging level indication by a 2-coloured green/red LED.

Battery or mains operation

Li-Ion 22 V Technology. Highly resistant Li-Ion 21.6 V battery with 5.0 Ah or 9.0 Ah capacity, for long service life. Light and powerful. Li-Ion 21.6 V, 5.0 Ah battery, for approx. 90 pipe bends, 9.0 Ah for approx. 160 pipe bends of the stainless steel Ø 22 mm press fitting systems with one battery charge. Graduated charging state display with coloured LED. Operating temperature range – 10 to + 60 °C. No memory effect for maximum battery power. Rapid charger Li-Ion 100–240 V, 90 W. Rapid charger Li-Ion 100–240 V, 290 W, for shorter charging times, as accessory. 220–240 V/21.6 V, 40 A voltage supply for mains operation instead of Li-Ion battery 21.6 V, as accessory.



German Quality Product



Bending lubricant

REMS bending spray ensures a permanent lubricating film for reducing energy expenditure and uniform bending. High-pressure-proof, acid-free, CFC-free, so ozone-harmless.

Supply format

REMS Akku-Curvo 22V Set. Cordless tube bender Ø 10–40 mm, Ø ¼–1½", to 180°. Hard, semi-hard, soft copper pipes, also thin-walled, Ø 10–28 mm, Ø ¾–1½", soft coated copper pipes, also thin-walled, Ø 10–18 mm, thick-walled copper pipes K65 for refrigeration and air conditioning technology EN 12735-1 Ø ¾–1½", pipes of the press fitting systems of stainless steel Ø 12–28 mm, carbon steel, also coated, Ø 12–28 mm, soft precision steel pipes Ø 10–28 mm, steel pipes EN 10255 Ø ¼–¾", electrical installation pipes EN 50086 Ø 16–25 mm, composite tubes Ø 14–40 mm, etc. Drive machine with D-shaped handle, maintenance-free gear with safely slipping clutch, powerful battery motor 21.6 V, stepless, electronic safety switch with immediate stop, right and left-hand rotation. Machine status check with overload protection, temperature monitoring, battery charging status check. Li-Ion 21.6 V, 5.0Ah battery, Li-Ion 100–240 V, 50–60 Hz, 90W rapid charger. Insert bolt. Bending and back formers. In sturdy steel case.

Description	Art.-No.
Set 15-18-22	580051
Set 15-18-22-28¹⁾	580052
Set 15-18-22-28²⁾	580053
Set 15-18-22-28³⁾	580054
Set 12-15-18-22	580055
Set 12-15-18-22-28¹⁾	580056
Set 12-15-18-22-28²⁾	580057
Set 15-22-28¹⁾	580058
Set 15-22-28²⁾	580059
Set 17-20-24	580060
Set 12-14-16-18-22	580061
Set 12-14-16-18-22-28¹⁾	580062
Set 12-14-16-18-22-28²⁾	580063
Set 14-16-18-22-28¹⁾	580064
Set 14-16-18-22-28²⁾	580065
Set ¾-½-¾-¼-⅜"	580066
Set 16-20-26-32	580067
Set 16-20-25-32	580068
Set 20-25-32	580069
Basic-Pack (without bending and back formers)	580014

Other voltages on request.

REMS Akku-Curvo 22V Set delivered with the smaller radius bending and back former (except Art.-No. 580069), see page 135.

¹⁾ Bending former and back former 28, R102, Art. No. 581070, for hard, semi-hard copper pipes, also thin-walled. See page 135.

²⁾ Bending former and back former 28, ¼" (DN 20), R102, Art. No. 581260, for hard copper pipes Ø 28 mm, Ø 1½", pipes of the press fitting systems of stainless steel/carbon steel Ø 28 mm. See page 135.

³⁾ Bending former and back former 28, ¾" (DN 20), R114, Art. No. 581310, for hard, semi-hard copper pipes Ø 28 mm, pipes of the press fitting systems of stainless steel/carbon steel Ø 28 mm, steel pipes ¾". According to DVGW work sheet GW 392 for hard and semi-hard copper pipes Ø 28 mm minimum bending radius 114 mm necessary. Wall thickness ≥ 0.9 mm. See page 135.

Accessories

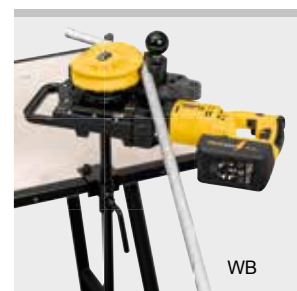
Description	Art.-No.
Bending formers and back formers see page 135.	
REMS Akku-Curvo 22V drive unit, without battery	580004
Battery Li-Ion 21.6V, 5.0Ah	571581
Battery Li-Ion 21.6V, 9.0Ah	571583
Rapid charger Li-Ion 100–240V, 50–60 Hz, 90W	571585
Rapid charger Li-Ion 100–240V, 50–60 Hz, 290W	571587
Voltage supply 220–240V/21.6V, 50–60 Hz, 40A, for mains operation instead of battery Li-Ion 21.6V	571578
Insert bolt	582036
REMS bending spray, 400 ml	140120
Steel case with inlay	566030
Machine support 3B, height adjustable, on tripod	586100
Machine support WB, height adjustable, for mounting on work bench	586150



Basic-Pack



3B



WB

Universal, robust hand tool for cold bending up to 180°. Can be used anywhere. For trade and industry. For the building site and the workshop.

Hard, half-hard, soft copper tubes, also thin-wall \varnothing 10–22 mm
 \varnothing $\frac{3}{8}$ – $\frac{7}{8}$ "

Coated soft copper tubes, also thin-wall \varnothing 10–18 mm

Pipes of press fitting systems made of stainless steel, carbon steel (coated) \varnothing 12–18 mm
Carbon steel \varnothing 12–22 mm

Soft precision steel tubes \varnothing 10–20 mm

Electric conduit EN 50086 \varnothing 16–20 mm

Multi-layer composite tubes \varnothing 14–32 mm

REMS Sinus – wrinkle-free bending.

Universal for many tubes. Easy bending through long lever arms. Selectable lever positioning ensures optimum bending position and power transmission. Only one type of bending and back formers for REMS Sinus and REMS Curvo.

Universal use

For sanitary, heating, air conditioning, refrigerating and hydraulic applications. Specially suited for tubes of pressfitting systems, for hard and half-hard copper tubes and for thin-walled copper heating tubes according to EN 1057.

System advantage

Only one type of bending and back formers for REMS Akku-Curvo 22V, REMS Curvo, REMS Curvo 50 and REMS Sinus. Therefore simple, inexpensive stocking. No confusion possible.

Cost advantage

Bender cost recovered after a small number of bends. No costs for fittings, storage, procurement. Savings in soldering joints, pressing joints and working hours. Higher safety thanks to fewer pipe joints.

Design

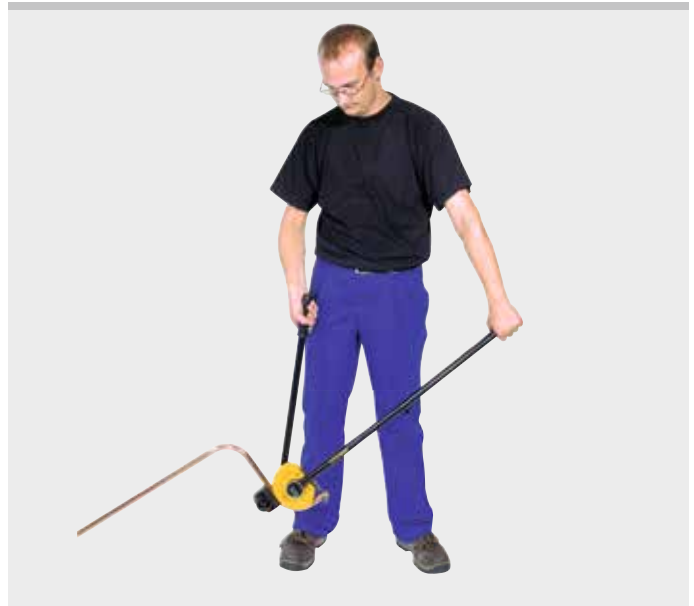
Compact, handy unit of bender drive and bending tools. Can be used anywhere, in parallel vice or free hand as double-hand-bender. Easy bending through long lever arms. Selectable lever positioning ensures optimum bending position and power transmission. Robust design, drive unit in hardened steel for high stress. Simple and rapid changing of bending and back formers. Crossover, swan-neck and U-bends possible.

Bending formers and back formers

For different pipe sizes, materials and bending radii, see page 135.

Bending lubricant

REMS bending spray ensures a permanent lubricating film for reducing energy expenditure and for uniform bending. High-pressure-proof, acid-free, CFC-free, so ozone-harmless.



German Quality Product



Info

Supply format

REMS Sinus Set. Hand tube bender \varnothing 10–32 mm, \varnothing $\frac{3}{8}$ – $\frac{7}{8}$ ", up to 180°.

Hard, half-hard, soft copper tubes, also thin-wall \varnothing 10–22 mm, \varnothing $\frac{3}{8}$ – $\frac{7}{8}$ ", coated soft copper tubes, also thin-wall \varnothing 10–18 mm, pipes of the press fitting systems made of stainless steel, carbon steel (coated) \varnothing 12–18 mm, soft precision steel tubes \varnothing 10–22 mm, soft precision steel tubes, \varnothing 10–20 mm, electric conduit EN 50086, \varnothing 16–20 mm, multi-layer composite tubes \varnothing 14–32 mm and others. Drive unit, insert bolt. Bending formers and back formers. REMS bending spray. In sturdy steel case.

Description	Art.-No.
Set 15-18-22	154001
Set 14-16-18	154002
Set 12-15-18-22	154003
Set 10-12-14-16-18-22	154004
Basic-Pack (without bending and back formers and bending spray)	154010

REMS Sinus Set is delivered with bending formers and back formers of the smaller radius, see page 135.

Accessories

Description	Art.-No.
Bending and back formers see page 135.	
Insert bolt	582036
REMS Curvo drive unit	580000
REMS Sinus drive unit	154000
REMS bending spray, 400 ml	140120
Steel case with inlay	154160



Bending formers and back formers

Accessories for REMS Curvo 50, REMS Curvo,
REMS Akku-Curvo 22V and REMS Sinus

Bending formers and back formers, 180°, form and pressure resistant, in high-strength, high-slide, glass-fibre reinforced polyamide or aluminum 90° (Ø 21.3 R 103, Ø 26.9 R 102, Ø 33.7 R 100, Ø 35 R 100, Ø 42 R 140, Ø 42.4 R 140, Ø 50 R 135, Ø 1" R 100, Ø 1¼" R 140). Optimum matching of bending former and back former guarantees material-compatible gliding without cracks and creases. Angle scale provided on each bending former and mark on the back former ensure precise bending. Rapid change of bending formers and back formers.



Bending former and back former for pipes Ø mm/inch O.D.	R mm	X mm 90°	X mm 45°	REMS Sinus							REMS Curvo							REMS Akku-Curvo 22V							REMS Curvo 50							Art.-No.							
				Cu	Cu-U	St 10312	St 10305-U	St 10305	St 10255	St 50086	∇	Cu	Cu 12735	Cu-U	St 10312	St 10305-U	St 10305	St 10255	St 50086	∇	Cu	Cu 12735	Cu-U	St 10312	St 10305-U	St 10305	St 10255	St 50086	∇	Cu	Cu 12735		Cu-U	St 10312	St 1127	St 10305-U	St 10305	St 10255	St 50086
10	40	45	20	●			●			●				●					●					●				▲					▲					581400	
12	45	49	22	●		●	●			●			●		●				●			●		●		●		▲					▲					581410	
14, 10 U, ¼" (DN 6)	50	53	23	●	●			●		●		●		●		●			●			●		●		●		▲					▲					581420	
15, 12 U	55	56	25	●	●	●	●			●			●	●	●				●			●	●	●	●		▲					▲	▲					581430	
16, 12 U	60	62	28	●	●			●	●	●				●		●		●	●	●	●	▲		●		●		▲					▲	▲				581440	
17, 15 U	56	60	27				●		●				●					●			▲												▲					581110	
18, 14 U, 15 U, ⅜" (DN 10)	70	75	33	●	●	●			●	●		●	●	●		●			●	●	▲		●	●	●	●	▲					▲	▲					581450	
20, 16 U, 18 U	75	80	36	●	●	●	●		●	●		●	●				●	●	●	●	▲		●		●		▲				▲	▲						581080	
21.3, ½" (s = 1.6/2.0/2.6)	103	110	50																											■		■						581480	
22, 18 U, ½" (DN 15)	77	81	36	●	●			●		●		●	●		●	●			●	●	▲		●	●	●		▲	▲				▲	▲					581460	
22, 18 U, ½" (DN 15)	88	91	41						●	●		●	●	●		●			●		▲		▲	▲				▲	▲									581470	
24, 22 U	75	85	38						●				●						●		▲		▲	▲				▲										581130	
25	98	103	46						●	●				●		●	●		●		▲				●	●	●					▲	▲					581180	
26	98	108	49					●						●				●						●		●						▲					581270		
26.9, ¾" (s = 1.6/2.0/2.6)	102	108	49																											■		■						581490	
28 ¹⁾	102 ³⁾	108	49						●							●					▲										■		■					581070	
28, ¾" (DN 20) ²⁾	102	110	50						●			●		●	●			●		▲			●	●	●		▲				▲	▲						581260	
28, ¾" (DN 20) ²⁾	114	120	54						●			●		●	●			●		▲		▲		●	●	●		▲			▲	▲						581310	
30, 28 U	98	105	47						●				●										●															581150	
32	98	110	50						●																										▲			581280	
32	114	121	54						●								●	●			▲													▲	▲			581320	
1" (DN 25)	100	105	47																																■			581520	
33.7, 1" (s = 1.6/2.0/2.6)	100	105	47																											■		■		■				581520	
35	100	105	47																		■							■										581500	
35	140	150	68						●											▲		▲											■					581350	
40	140	148	67														●																			▲		581330	
42	140	155	70																	■																		581510	
1¼" (DN 32)	140	150	68																	■		■											■					581530	
42.4, 1¼" (s = 2.0/2.6)	140	150	68																										■					■					581530
50	135	143	64																																	■		581540	
¾" (9.5 mm)	43	48	22	●						●	●								●	●								▲	▲									581200	
½" (12.7 mm)	52	60	27	●						●	●								●	●								▲	▲									581210	
⅝" (15.9 mm)	63	70	32	●						●	●								●	●								▲	▲									581220	
¾" (19.1 mm)	75	82	37	●						●	●								●	●								▲	▲									581230	
⅞" (22.2 mm)	98	107	48	●						●	●								●	●								▲	▲									581240	
1" (25.4 mm)	101	112	50							●									●									▲										581370	
1⅛" (28.6 mm)	102	110	44							●	●								●	●								▲	▲									581260	
1⅜" (28.6 mm)	115	117	53							●									●									▲										581380	
1¼" (31.8 mm)	114	123	55							●																		▲	▲									581320	
1¼" (31.8 mm)	133	145	65							●																		▲										581390	
1⅝" (34.9 mm)	100	105	47																																■			581500	
1⅝" (34.9 mm)	140	150	68							●	●																	▲	▲									581350	
1⅞" (41.3 mm)	140	155	70																									■	■									581510	

R mm Bending radius mm at the neutral axis of the bend (DVGW GW 392)
X mm Correction dimension for a 90° or 45° bend
s mm Wall thickness
¹⁾ hard, semi-hard copper pipes, also thin-walled, EN 1057
²⁾ hard copper pipes EN 1057
³⁾ According to DVGW work sheet GW 392 for hard and semi-hard copper pipes
Ø 28 mm minimum bending radius 114 mm necessary. Wall thickness ≥ 0.9 mm.
▲ Adaptor block 10–40, support 10–40 (Art.-No. 582120) necessary.
■ Adaptor block 35–50, support 35–50 (Art.-No. 582110) necessary.
Cu: hard, half-hard, soft copper tubes, also thin-wall, EN 1057
Cu 12735: Copper pipes K65 for refrigeration and air conditioning technology
in accordance with EN 12735-1, EN 12449
St 10312: stainless steel pipes of the press fitting systems EN 10312, series 2,
EN 10088, EN 10217-7
St 1127: stainless steel pipes EN ISO 1127, EN 10217-7
St 10305-U: coated, soft carbon steel pipes of the press fitting systems EN 10305-3
St 10305: soft precision steel pipes EN 10305-1, EN 10305-2, EN 10305-3,
carbon steel pipes EN 10305-3
St 10255: Steel pipes (threaded pipes) EN 10255
St 50086: Electrical installation pipes DIN EN 50086
U: coated
V: multi-layer composite tubes of pressfitting systems

Bending to size

If a bend is required at a certain point on the pipe, a length correction must be made to suit the pipe size. The correction dimension X specified in Fig. 1 must be considered for a 90° or 45° bend. The set dimension L must be reduced by the amount X here. If, e.g., the dimension L for pipe size 22 is 400 mm and a bend with a bending radius of 77 mm is to be made, the dimension line should be marked on the pipe at 319 mm. This line is then – as shown in Fig. 1 – to be aligned with the 0-mark on the bending former.

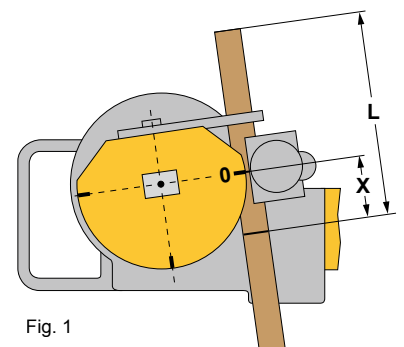
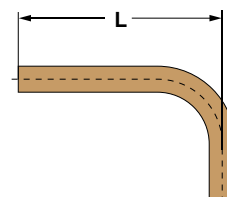


Fig. 1