



**GEDORE**

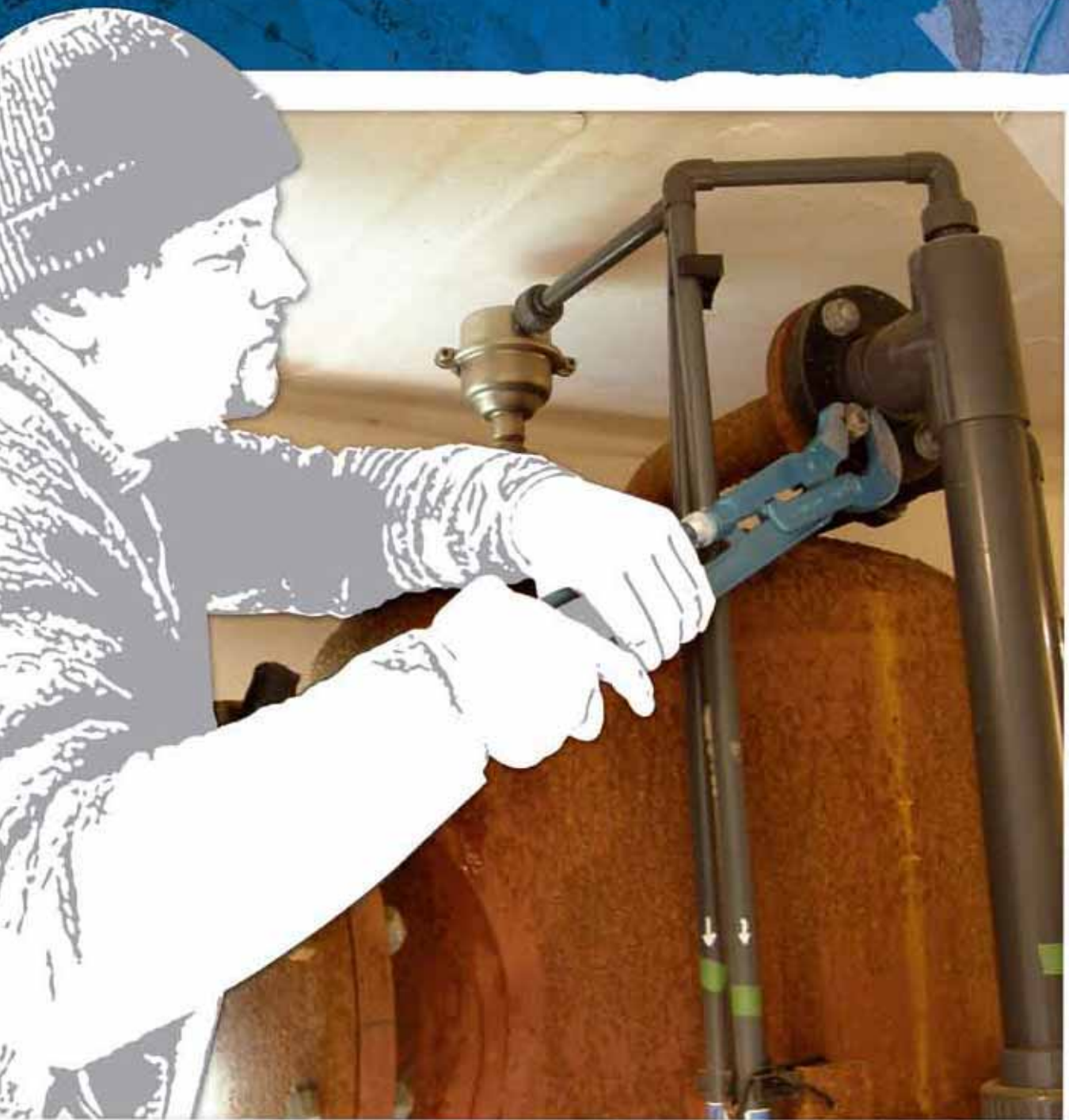


# ALL AROUND THE PIPE A STRONG GRIP

## OVERVIEW

- ✔ Pipe wrenches
- ✔ Water pump pliers
- ✔ Tin snips
- ✔ Arc punches
- ✔ Pipe cleaning equipment
- ✔ Pipe bending systems
- ✔ Technical information





# ECK-SCHWEDE-SNAP® - THE SWEDISH

Tried and tested bestseller with a powerful grip for more than 50 years

① The special, supplementary flame hardening of the teeth increases and improves the grip and durability of the snap®

①

②

Force is always applied by snap® simultaneously at three points, ensuring a secure grip with low hand pressure

③

Hook and leg made from drop-forged GEDORE chrome-vanadium special steel, hardened and tempered

⑤

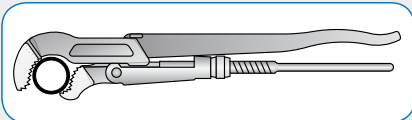
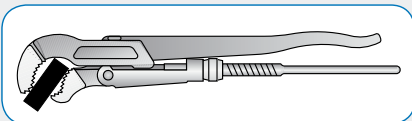
The mouth of the jaw opening is always narrower than the pipe diameter, reliably preventing the workpiece from slipping out. Securely grips pipes and screw couplings

④

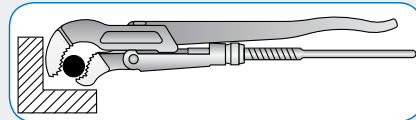
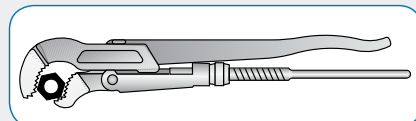
Stove enamelling guarantees long-life protection



## WORKING PRINCIPLE



The jaw form of the snap® reliably prevents the workpiece slipping out, and ensures maximum freedom of movement in confined spaces



The curvature of the jaws adapts ideally to different profiles, enabling the snap® to grip hexagonal nuts - gently and securely



# MANUFACTURING PROCESS FOR PIPE WRENCHES

The pipe pliers comprise a hook, shaft, sleeve, knurled nut and locking ring. The individual parts are initially manufactured separately. Final machining is carried out on the assembled pipe wrench.

## WRENCH - HOOK AND SLEEVE

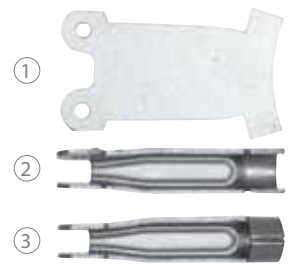
### Hook

- ① The blank is stamped in an eccentric press from steel flat stock. The steel used is GEDORE chrome-vanadium special steel. The thick head and slim shaft can already be identified
- ② The blank is heated precisely to forging temperature in the continuous furnace and then forged in a forging die
- ③ The excess material is removed by de-burring. Scale is removed by sand blasting and grinding
- ④ Thread cutting; the thread has a rounded geometry. The absence of sharp edges ensures that no chips or other contaminants can collect in the thread to hinder movement
- ⑤ The slot for the shaft is milled. The teeth are broached



### Sleeve

- ① The sleeve is stamped from steel
- ② The sleeve is pre-bent
- ③ The stamped geometry gives the finished sleeve high flexural strength. It is subsequently hardened in the continuous furnace



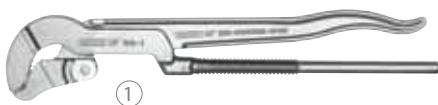
## SHAFT

- ① The blank is stamped in an eccentric press from steel flat stock. The steel used is GEDORE chrome-vanadium special steel. The thick head and slim shaft can already be identified
- ② The blank is heated precisely to forging temperature in the continuous furnace and then forged in a forging die
- ③ The excess material is removed by de-burring. Scale is removed by sand blasting and grinding
- ④ The rivet hole for the sleeve is drilled
- ⑤ The joint is machined to its final geometry in the machining centre
- ⑥ The teeth are broached



## ASSEMBLY AND END MACHINING:

- ① In the area of the slot, the hook is widened and pushed through the shaft. Once this is done, the hook is pressed back to its original size
- ② In the continuous furnace, the pipe wrench is heated to hardening temperature, quenched in a water bath and completely hardened through. To achieve the optimum combination of hardness and toughness, the wrench is annealed throughout. The teeth of GEDORE pipe wrenches are then once again flame hardened. The additional hardness this achieves ensures a long tool life. The sleeve is pushed on the shaft and riveted to the hook. Before entering the paint shop, the pipe wrench is straightened, descaled and degreased
- ③ The pipe wrench is stove enamelled. The side surfaces of the head are ground and treated with a corrosion-protection agent. The final step is to screw on the knurled nut and the locking ring



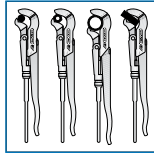


**PIPE WRENCHES**

**100**

**ELBOW PIPE WRENCH ECK-SCHWEDE-SNAP® - THE SWEDISH THE ORIGINAL**

- ✔ To DIN 5234 Form C
- ✔ Heavy-duty pipe wrench with three-point grip
- ✔ For working in confined spaces
- ✔ GEDORE chrome-vanadium special steel
- ✔ Drop forged
- ✔ Tempered, teeth additionally hardened
- ✔ Teeth offset against direction of rotation
- ✔ Roller secured against loss
- ✔ Stove enamelled blue



Code	No.	Size	mm	mm	mm	
4500060	<b>100 1/2</b>	1/2	35	245	380	1
4500140	<b>100 1</b>	1	48	320	800	1
4500220	<b>100 1.1/2</b>	1.1/2	60	420	1400	1
4500300	<b>100 2</b>	2	80	550	2240	1
4500490	<b>100 3</b>	3	110	630	3580	1

**9100**

**PIPE WRENCH S**

- ✔ To DIN 5234 Form C
- ✔ For working in confined spaces
- ✔ GEDORE chrome-vanadium special steel
- ✔ Drop forged
- ✔ Tempered, teeth additionally hardened
- ✔ Teeth offset against direction of rotation
- ✔ Roller secured against loss
- ✔ Stove enamelled silver

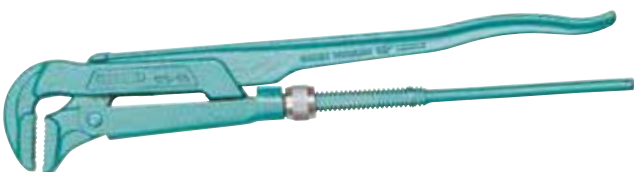
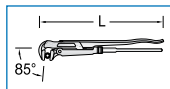


Code	No.	Size	mm	mm	mm	
4531960	<b>9100 1/2</b>	1/2	35	245	380	1
4532180	<b>9100 1</b>	1	48	320	800	1
4532260	<b>9100 1.1/2</b>	1.1/2	60	420	1400	1
4532340	<b>9100 2</b>	2	80	550	2240	1
4532420	<b>9100 3</b>	3	110	630	3580	1

**175**

**PIPE WRENCH Swedish pattern**

- ✔ To DIN 5234 Form A
- ✔ Especially sturdy type for heavy use
- ✔ GEDORE chrome-vanadium special steel
- ✔ Drop forged
- ✔ Tempered, teeth additionally hardened
- ✔ Teeth offset against direction of rotation
- ✔ Roller secured against loss
- ✔ Stove enamelled blue



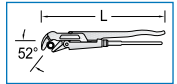
Code	No.	Size	mm	L	mm	
6437260	<b>175 3/4</b>	3/4	38	280	450	1
6437340	<b>175 1</b>	1	44	320	680	1
6437420	<b>175 1.1/2</b>	1.1/2	62	430	1500	1
6437500	<b>175 2</b>	2	76	580	2600	1
6437690	<b>175 3</b>	3	105	670	3700	1
6437770	<b>175 4</b>	4	130	760	5200	1



**176**

**ELBOW PIPE WRENCH**

- ✔ To DIN 5234 Form B
- ✔ For working in confined spaces
- ✔ Narrow head, multi-grip jaw pattern
- ✔ GEDORE chrome-vanadium special steel
- ✔ Drop forged
- ✔ Tempered, teeth additionally hardened
- ✔ Teeth offset against direction of rotation
- ✔ Roller secured against loss
- ✔ Stove enamelled blue



Code	No.	Size	mm	L	mm	
6438070	<b>176 3/4</b>	3/4	38	280	450	1
6438150	<b>176 1</b>	1	44	320	680	1
6438230	<b>176 1.1/2</b>	1.1/2	62	430	1400	1
6438310	<b>176 2</b>	2	76	580	2600	1
6438580	<b>176 3</b>	3	105	670	3700	1

**225**

**PIPE WRENCH STILLSON**

- ✔ Stillson type, forged parts hardened and tempered
- ✔ Teeth offset against direction of rotation and induction-hardened
- ✔ GEDORE special hardened and tempered steel
- ✔ Ground up to 24°



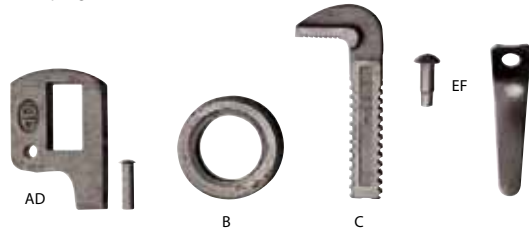
Code	No.	mm	mm	mm	mm	mm		
6450280	<b>225 8</b>	180	8	27	1.1/16	3/4	300	1
6450360	<b>225 10</b>	240	10	35	1.3/8	1	600	1
6450440	<b>225 12</b>	280	12	44	1.3/4	1.1/4	900	1
6450520	<b>225 14</b>	320	14	48	1.7/8	1.1/2	1100	1
6450600	<b>225 18</b>	410	18	60	2.3/8	2	1650	1
6450790	<b>225 24</b>	540	24	76	2.1/2	3	3000	1
6450870	<b>225 36</b>	920	36	100	3.1/2	4	5600	1
6450950	<b>225 48</b>	1220	48	145	5.3/4	5	9300	1



## E-225

### SPARE PARTS

- Combine the spare part order No. with the correct size:
- E-225 AD = housing and rivet
- E-227 B = roller
- E-227 C = jaw
- E-227 EF = rivet and spring



Code	No.	Description	↕	📦
1490923	<b>E-225 AD 8</b>	Housing and rivet	50	1
1490931	<b>E-225 AD 10</b>	Housing and rivet	117	1
1490958	<b>E-225 AD 12</b>	Housing and rivet	156	1
1490966	<b>E-225 AD 14</b>	Housing and rivet	130	1
1490974	<b>E-225 AD 18</b>	Housing and rivet	250	1
1490982	<b>E-225 AD 24</b>	Housing and rivet	430	1
5440860	<b>E-225 AD 36</b>	Housing and rivet	660	1
5440940	<b>E-225 AD 48</b>	Housing and rivet	860	1
1490834	<b>E-225 B 8</b>	Roller	10	1
1490842	<b>E-225 B 10</b>	Roller	25	1
1490850	<b>E-225 B 12</b>	Roller	35	1
1490869	<b>E-225 B 14</b>	Roller	45	1
1490877	<b>E-225 B 18</b>	Roller	60	1
1490885	<b>E-225 B 24</b>	Roller	135	1
5448840	<b>E-225 B 36</b>	Roller	240	1
5448920	<b>E-225 B 48</b>	Roller	310	1
1490753	<b>E-225 C 8</b>	Jaw	85	1
1490761	<b>E-225 C 10</b>	Jaw	190	1
1490788	<b>E-225 C 12</b>	Jaw	260	1
1490796	<b>E-225 C 14</b>	Jaw	340	1
1490818	<b>E-225 C 18</b>	Jaw	470	1
1490826	<b>E-225 C 24</b>	Jaw	830	1
5449730	<b>E-225 C 36</b>	Jaw	1600	1
5449810	<b>E-225 C 48</b>	Jaw	2500	1
1490990	<b>E-225 EF 8</b>	Rivet and spring	3	1
1491008	<b>E-225 EF 10</b>	Rivet and spring	3	1
1491016	<b>E-225 EF 12</b>	Rivet and spring	3	1
1491040	<b>E-225 EF 14</b>	Rivet and spring	3	1
1491024	<b>E-225 EF 18</b>	Rivet and spring	3	1
1491032	<b>E-225 EF 24</b>	Rivet and spring	3	1
5452870	<b>E-225 EF 36</b>	Rivet and spring	10	1
5452950	<b>E-225 EF 48</b>	Rivet and spring	10	1

## 227

### PIPE WRENCH American pattern

- Extra heavy type
- Forged parts hardened and tempered
- Teeth offset against direction of rotation and induction-hardened
- Handle made from malleable cast iron
- GEDORE special hardened and tempered steel
- Ground
- Stove enamelled handles

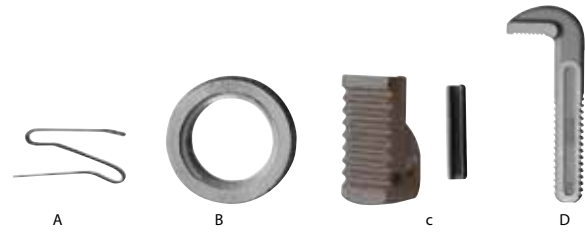


Code	No.	↳mm↳	↳inch↳	mm	inch	↳inch	↕	📦
6453030	<b>227 8</b>	190	8	38	1.1/2	1	400	1
6453110	<b>227 10</b>	245	10	48	1.7/8	1.1/2	750	1
6453460	<b>227 14</b>	325	14	60	2.3/8	2	1500	1
6453540	<b>227 18</b>	415	18	76	3	2.1/2	2400	1
6453620	<b>227 24</b>	560	24	89	3.1/2	3	4300	1

## E-227

### SPARE PARTS

- Combine the spare part order no. with the correct size:
- E-227 A = spare spring
- E-227 B = spare adjuster screw
- E-227 C = spare jaw with pin
- E-227 D = spare hook



Code	No.	Description	↕	📦
1491245	<b>E-227 A 8</b>	Spring	1	1
1491253	<b>E-227 A 10</b>	Spring	2	1
1491261	<b>E-227 A 14</b>	Spring	5	1
1491296	<b>E-227 A 18</b>	Spring	6	1
1491318	<b>E-227 A 24</b>	Spring	8	1
1491121	<b>E-227 B 8</b>	Roller	12	1
1491148	<b>E-227 B 10</b>	Roller	25	1
1491164	<b>E-227 B 14</b>	Roller	50	1
1491172	<b>E-227 B 18</b>	Roller	80	1
1491180	<b>E-227 B 24</b>	Roller	140	1
1491199	<b>E-227 C 8</b>	Jaw with pin	25	1
1491202	<b>E-227 C 10</b>	Jaw with pin	35	1
1491210	<b>E-227 C 14</b>	Jaw with pin	60	1
1491229	<b>E-227 C 18</b>	Jaw with pin	85	1
1491237	<b>E-227 C 24</b>	Jaw with pin	150	1
1491067	<b>E-227 D 8</b>	Hook	110	1
1491075	<b>E-227 D 10</b>	Hook	210	1
1491091	<b>E-227 D 14</b>	Hook	440	1
1491105	<b>E-227 D 18</b>	Hook	720	1
1491113	<b>E-227 D 24</b>	Hook	1000	1

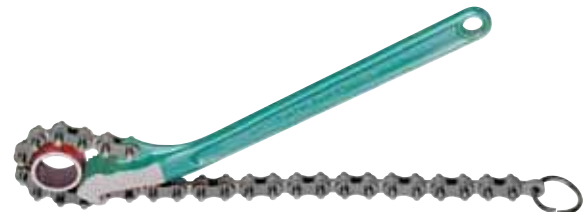
Detailed information on products, promotions and trade fairs  
... [www.gedore.com](http://www.gedore.com)

## CHAIN PIPE WRENCHES

### 120

#### CHAIN PIPE WRENCH BOSS®

- Ideal for use in areas with restricted access
- Ratchet-type operation
- Handle in GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened



Code	No.	Size	∅mm	↳mm↳	↕	📦
4502350	<b>120000</b>	3/8-4	17-114	300	720	1

### E 120

#### SPARE CHAIN BOSS®

Code	No.	↳mm↳	↕	📦
4535280	<b>120200</b>	450	320	1



**122**

**CHAIN PIPE WRENCH American pattern**

- High efficiency due to maximum-possible lever action
- Tempered steel as per DIN 17200
- With hardened exchangeable jaws, toothed on both sides



Code	No.	Size	Ø mm	l-mm	mm	kg
4535360	<b>122002</b>	1/8-2	10-60	510	2.5	1
4535440	<b>122003</b>	1/4-3	13-89	710	4.0	1
4502430	<b>122004</b>	3/4-4	27-114	940	6.6	1
4502510	<b>122006</b>	1-6	33-168	1090	9.1	1
4548340	<b>122008</b>	1.1/2-8	48-219	1275	13.0	1
4548420	<b>122012</b>	2-12	60-324	1600	22.1	1

**E 122**

**SPARE CHAIN**



Code	No.	Size	l-mm	mm	kg
4548500	<b>122202</b>	1/8-2	380	0.7	1
4548690	<b>122203</b>	1/4-3	490	1.0	1
4548770	<b>122204</b>	3/4-4	610	1.4	1
4548850	<b>122206</b>	1-6	850	2.2	1
4548930	<b>122208</b>	1.1/2-8	1080	3.3	1
4549070	<b>122212</b>	2-12	1450	5.7	1

**E 122**

**SPARE JAWS Pair**



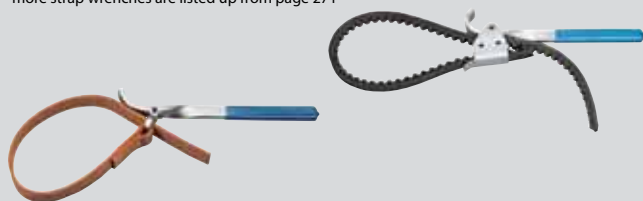
Code	No.	Size	mm	kg
4549150	<b>122302</b>	1/8-2	0.3	1
4549230	<b>122303</b>	1/4-3	1.0	1
4549310	<b>122304</b>	3/4-4	1.5	1
4549580	<b>122306</b>	1-6	2.1	1
4549660	<b>122308</b>	1.1/2-8	2.6	1
4549740	<b>122312</b>	2-12	4.5	1

**E 122**

**SPARE BOLTS Pair**

Code	No.	Size	mm	kg
4549820	<b>122402</b>	1/8-2	27	1
4549900	<b>122403</b>	1/4-3	60	1
4550080	<b>122404</b>	3/4-4	57	1
4550160	<b>122406</b>	1-6	58	1
4550240	<b>122408</b>	1.1/2-8	92	1
4550320	<b>122412</b>	2-12	106	1

more strap wrenches are listed up from page 271



**STRAP WRENCHES**

**126**

**STRAP WRENCH**

- Very gentle to surfaces, particularly suitable for chrome-plated fittings and polished surfaces
- Handle in light metal
- With high-strength nylon strap



Code	No.	mm	Ø mm	l-mm	mm	kg
1468308	<b>126008</b>	27	220	300	325	1

**E 126**

**SPARE STRAP**

Code	No.	mm	l-mm	mm	kg
1468316	<b>126208</b>	27	950	35	1

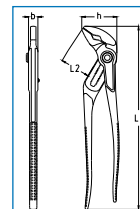
**WATER PUMP PLIERS**

- SB = self-service pack (plastic hanging clip, Euro perforation, for self-service display wallboard)

**142**

**UNIVERSAL PLIERS**

- Acc. to DIN ISO 8976 Form C
- With safety box joint and protection against blocking
- Fine adjustment
- Single-hand push-button adjustment
- Long slim jaws
- Long jaws, slim handles with forged serrations in execution C
- Offset gripping faces for self-gripping of nuts and pipes
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces
- SB = self-service pack
- 142 10 = 15 settings
- 142 12 = 17 settings



Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	mm	kg
6416260	<b>142 10 C</b>	250	39	7.5	48	38	310	5	
6416180	<b>142 10 TL</b>	255	39	7.5	48	38	320	5	
6416340	<b>142 10 JC</b>	260	39	7.5	48	38	350	5	
1995553	<b>142 12 C</b>	300	43	8.5	55	44	510	1	
1995413	<b>142 12 TL</b>	300	43	8.5	55	44	530	1	

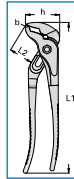
Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	mm	kg
1700138	<b>SB 142 10 C</b>	250	39	7.5	48	38	320	5	
1700146	<b>SB 142 10 JC</b>	260	39	7.5	48	38	360	5	
1700111	<b>SB 142 10 TL</b>	255	39	7.5	48	38	330	5	



**143**

**UNIVERSAL PLIERS 5 settings**

- ▶ Acc. to DIN ISO 8976 Form B
- ▶ Forged twin-groove lay-on slip joint and toothed recess
- ▶ Offset gripping faces for self-gripping of nuts and pipes
- ▶ With finger protection
- ▶ GEDORE chrome-vanadium special steel
- ▶ Induction-rehardened serrated faces
- ▶ E-143 = spare bolt, nut
- ▶ SB = self-service pack



Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
6410650	<b>143 10 C</b>	248	40	10.6	56	32	300	5
6415880	<b>143 10 JC</b>	252	40	10.6	56	32	350	5

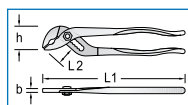
Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
1700154	<b>SB 143 10 C</b>	248	40	10.6	56	32	310	5
1700162	<b>SB 143 10 JC</b>	252	40	10.6	56	32	360	5

Code	No.	Description		
5410600	<b>E-143 A 10</b>	Set of spares	12	1

**144**

**MECHANICS PLIERS 7 settings**

- ▶ Acc. to DIN ISO 8976 Form A
- ▶ Lay-on slip joint and straight, serrated jaws
- ▶ GEDORE chrome-vanadium special steel
- ▶ Induction-rehardened serrated faces
- ▶ E-144 = spare bolt, washer and nut



Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
6411110	<b>144 4.1/2 C</b>	113	13	3.8	23	16	50	1
6411380	<b>144 7 C</b>	175	22	5.5	35	26	150	1

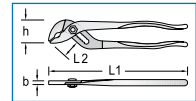
Code	No.	Description		
5411170	<b>E-144 A 4.1/2</b>	Set of spares	7	1
5411330	<b>E-144 A 7</b>	Set of spares	10	1

Deviant packing units see article description.

**145**

**WATER PUMP PLIERS**

- ▶ Acc. to DIN ISO 8976 Form A
- ▶ Lay-on slip joint and toothed recess
- ▶ Induction-rehardened serrated faces, with finger protection
- ▶ GEDORE chrome-vanadium special steel
- ▶ Execution C = handles cross-hatched
- ▶ Execution JC = with 2-component handle sleeves
- ▶ 145 10 = 7 settings, with extra narrow jaws
- ▶ 145 15 = 9 settings
- ▶ 145 20 = 11 settings
- ▶ E-145 = spare bolt, washer and nut
- ▶ SB = self-service pack



Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
6412000	<b>145 10 C</b>	250	41	7.8	47	39	320	5
6415610	<b>145 10 JC</b>	260	41	7.8	47	39	330	5
6412190	<b>145 15 C</b>	375	46	10.4	72	50	700	1
6412270	<b>145 20 C</b>	500	55	13.8	98	65	1450	1

Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
1700073	<b>SB 145 10 C</b>	250	32	7.8	47	39	330	5
1700081	<b>SB 145 10 JC</b>	260	32	7.8	47	39	340	5

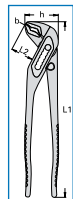
Code	No.	Description		
5412140	<b>E-145 A 15</b>	Set of spares 3-5a	20	1
5412220	<b>E-145 A 20</b>	Set of spares 3-5b	35	1



**146**

**UNIVERSAL PLIERS 7 settings**

- ▶ Acc. to DIN ISO 8976 Form C
- ▶ With safety box joint and finger protection
- ▶ Offset gripping faces for self-gripping
- ▶ GEDORE chrome-vanadium special steel
- ▶ Induction-rehardened serrated faces
- ▶ SB = self-service pack



Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
6413240	<b>146 10 CP</b>	250	32.5	4.8	48	31	355	5

Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm		
1700103	<b>SB 146 10 CP</b>	250	32.5	4.8	48	31	365	5



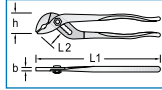




**9144**

**WATER PUMP PLIERS**

- To DIN ISO 8976
- Chrome-vanadium steel
- With box joint
- Drop forged

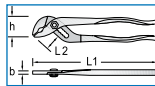


Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	mm	mm
4533230	<b>914417</b>	175	28	7.0	33	26	150	5	
4533310	<b>914424</b>	240	35	7.5	40	33	290	5	
4533580	<b>914430</b>	300	40	9.0	60	45	480	5	

**146 B**

**SPECIAL WATER PUMP PLIERS 5 settings**

- Acc. to DIN ISO 8976 Form C
- Quick-setting tooth-lock box joint, with toothed recess
- Absolutely safe and positive - will not slip out of adjustment in use
- With finger protection
- GEDORE chrome-vanadium special steel, chrome-plated and polished
- SB = self-service pack

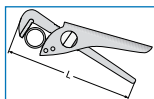


Code	No.	L <sub>1</sub>	L <sub>2</sub>	b	h	mm	mm	mm	mm
6412510	<b>146 B 10</b>	250	45	8	55	50	480	1	
1700170	<b>SB 146 B 10</b>	250	45	8	55	50	490	1	

**152**

**HIGH-SPEED PIPE WRENCH with screw adjuster**

- Powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting
- SB = self-service pack



Code	No.	L	L'	mm	"inch	Pipes	Sockets	mm	mm
6419280	<b>152 7</b>	178	7	35	1.3/8	1"	3/4"	295	1
6419360	<b>152 9</b>	228	9	42	1.5/8	1.1/4"	1"	515	1
6419440	<b>152 11</b>	281	11	61	2.3/8	2"	1.3/4"	815	1
6419520	<b>152 12</b>	315	12	74	3	2.1/2"	2"	1000	1
6419600	<b>152 14</b>	360	14	90	3.9/16	3"	-	1600	1
1700057	<b>SB 152 7</b>	178	7	35	1.3/8	1"	3/4"	305	1
1700065	<b>SB 152 9</b>	228	9	42	1.5/8	1.1/4"	1"	525	1

**152 NI**

**HIGH-SPEED PIPE WRENCH NICKEL-PLATED with screw adjuster**

- Nickel-plated
- Single-hand adjustment
- Gripping faces selfinhibiting
- SB = self-service pack



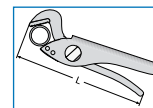
Code	No.	L	L'	mm	"inch	Pipes	Sockets	mm	mm
1826700	<b>152 9 NI</b>	228	9	42	1.5/8	1.1/4"	1"	520	1
1826727	<b>152 12 NI</b>	315	12	74	3	2.1/2"	2"	1000	1



**152 G**

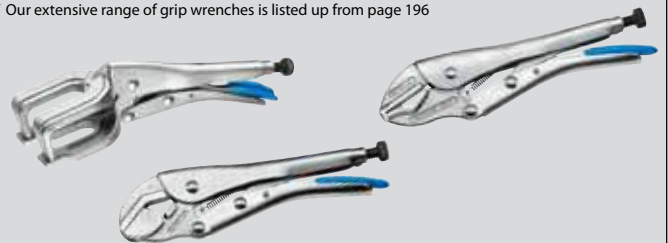
**HIGH-SPEED PIPE WRENCH curved, with screw adjuster**

- Powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting
- SB = self-service pack



Code	No.	L	L'	mm	"inch	Pipes	Sockets	mm	mm
1394835	<b>152 G-7</b>	175	7	35	1.3/8	1"	3/4"	250	1
1394843	<b>152 G-9</b>	225	9	42	1.5/8	1.1/4"	1"	520	1
1394851	<b>152 G-12</b>	300	12	74	3	2"	2"	900	1
1700537	<b>SB 152 G-7</b>	175	7	35	1.3/8	1"	3/4"	260	1
1700545	<b>SB 152 G-9</b>	225	9	42	1.5/8	1.1/4"	1"	530	1

➤ Our extensive range of grip wrenches is listed up from page 196





## PIPE CUTTERS

### 210

#### LINK PIPE CUTTER for steel and SML pipes

- Low space requirements
- Can be shortened or extended
- Cutting wheel for cast iron pipes no. 211200 can be used



Code	No.	up to Ø mm	Cutting wheels		
4536170	<b>210010</b>	100	3	4.9	1
4550910	<b>210012</b>	125	4	5.3	1
4536250	<b>210015</b>	150	5	5.7	1
4551050	<b>210017</b>	175	6	6.1	1
4536330	<b>210020</b>	200	7	6.5	1
4551130	<b>210025</b>	250	9	7.3	1
4551210	<b>210030</b>	300	11	8.1	1

### 211

#### LINK PIPE CUTTER for cast iron pipes

- Low space requirements
- Can be shortened or extended
- Cutting wheel for steel pipes no. 210200 can be used



Code	No.	up to Ø mm	Cutting wheels		
4536760	<b>211010</b>	100	3	4.9	1
4551560	<b>211012</b>	125	4	5.3	1
4546990	<b>211015</b>	150	5	5.7	1
4551720	<b>211017</b>	175	6	6.1	1
4536840	<b>211020</b>	200	7	6.5	1
4551800	<b>211025</b>	250	9	7.3	1
4551990	<b>211030</b>	300	11	8.1	1

### E 210-211

#### SPARE PARTS

Code	No.	l mm		
4536410	<b>210200</b> Cutting wheel for steel	50 x 11 x 11	80	1
4536920	<b>211200</b> Cutting wheel for cast iron	50 x 11 x 11	88	1
4551480	<b>210500</b> Spare link		290	1
4536680	<b>210600</b> Spare bolt		27	1

### 220

#### PIPE CUTTER TUBEX® for steel pipes

- Heavy-duty pipe cutter with 1 cutting wheel
- Frame in malleable cast steel, size 1.1/4" forged
- Cutting wheels for cast iron pipes and niro pipes can be used (sizes 2" and 4")



Code	No.	Size	Ø mm	l mm		
4503320	<b>220012</b>	1/8-1.1/4"	10-42	275	1.3	1
4503400	<b>220020</b>	1/8-2"	10-60	380	2.9	1
4503590	<b>220040</b>	1.1/4-4"	42-114	520	5.0	1

### 221

#### PIPE CUTTER TUBEX® for cast iron pipes

- Heavy-duty pipe cutter with 1 cutting wheel
- Frame in malleable cast steel
- Cutting wheels for steel pipes and niro pipes can be used



Code	No.	Size	Ø mm	l mm		
4624380	<b>221020</b>	1/8-2"	10-60	380	2.9	1
4552880	<b>221040</b>	1.1/4-4"	42-114	520	5.0	1

### 222

#### PIPE CUTTER TUBEX® for steel pipes

- Heavy-duty pipe cutter with 3 cutting wheels
- Ideal for working in confined, hard-to-reach places, since the cutter does not need to be turned through 360°
- Frame in malleable cast steel, size 1.1/4" forged
- Cutting wheels for cast iron pipes and niro pipes can be used (sizes 2" and 4")



Code	No.	Size	Ø mm	l mm		
4553260	<b>222012</b>	1/8-1.1/4"	10-42	275	1.2	1
4537060	<b>222020</b>	1/8-2"	10-60	380	2.7	1
4553420	<b>222040</b>	1.1/4-4"	42-114	520	4.8	1

### 223

#### PIPE CUTTER TUBEX® for cast iron pipes

- Heavy-duty pipe cutter with 3 cutting wheels
- Ideal for working in confined, hard-to-reach places, since the cutter does not need to be turned through 360°
- Frame in malleable cast steel
- Cutting wheels for steel pipes and niro pipes can be used



Code	No.	Size	Ø mm	l mm		
4625190	<b>223020</b>	1/8-2"	10-60	380	2.7	1
4721070	<b>223040</b>	1.1/4-4"	42-114	520	4.8	1

### E 220-223

#### SPARE PARTS

Code	No.	l mm		
4503670	<b>220212</b> Cutting wheel for steel 1/8-1.1/4"	25 x 14 x 7.5	13	1
4503750	<b>220220</b> Cutting wheel for steel 1/8-2"	32 x 19 x 9.0	28	1
1524038	<b>220221</b> Cutting wheel for niro 1/8-2"	32 x 19 x 9.0	28	1
4503830	<b>220240</b> Cutting wheel for steel 1.1/4-4"	41 x 19 x 9.0	38	1
1516884	<b>220241</b> Cutting wheel for niro 1.1/4-4"		40	1
4552960	<b>221220</b> Cutting wheel for cast iron 1/8-2"	32 x 19 x 9.0	40	1
4553180	<b>221240</b> Cutting wheel for cast iron 1.1/4-4"	41 x 19 x 9.0	64	1
4552020	<b>220512</b> Pressure roller 1/8-1.1/4"		40	1
4552100	<b>220520</b> Pressure roller 1/8-2"		117	1
4552290	<b>220540</b> Pressure roller 1.1/4-4"		108	1
4552370	<b>220612</b> Wheel and pressure roller bolt 1/8-1.1/4"		8	1
4552450	<b>220620</b> Wheel bolt 1/8-2"		15	1
4552530	<b>220640</b> Wheel and pressure roller bolt 1.1/4-4"		19	1
4552610	<b>220720</b> Pressure roller bolt 1/8-2" for 220+221		23	1





**218**

**HEAVY-DUTY PIPE CUTTER for stainless steel pipes**

- Easy cutting due to ball-bearing pressure rollers and cutting wheels
- Body in pressure-cast aluminium
- Cutting wheels with extremely long service life
- No. 218030 with quick-release



Code	No.	Ø mm	l-mm	W	H
1949748	<b>218010</b>	4-32	140	300	1
1949764	<b>218020</b>	5-45	170	390	1
1949772	<b>218030</b>	16-60	225	990	1

**E 218**

**SPARE PARTS**

Code	No.	Description	Measures	W	H
1949780	<b>218210</b>	Cutting wheel for 218010+020	22.0 x 7.9 x 5	5	1
1949799	<b>218230</b>	Cutting wheel for 218030	27.5 x 7.9 x 5	7	1
1974114	<b>218310</b>	Needle bearing for cutting wheel 218		1	1
1974041	<b>218510</b>	Pressure roller for 218010		3	1
1974068	<b>218520</b>	Pressure roller for 218020		5	1
1974076	<b>218530</b>	Pressure roller small for 218030		8	1
1974084	<b>218531</b>	Pressure roller big for 218030		8	1
1974025	<b>218610</b>	Spare bolt for 218010+020		3	1
1974033	<b>218630</b>	Spare bolt for 218030		5	1
1974092	<b>218710</b>	Pressure roller for 218010+020		5	1
1974106	<b>218730</b>	Pressure roller bolt for 218030		8	1



**224**

**RATCHET PIPE CUTTER NIRO for stainless steel pipes**

- Low space requirements
- Body in zinc-plated pressure-cast aluminium
- With automatic infeed of the cutting wheel with every rotation
- Cutting wheel with high service life
- Spare cutting wheel included



Code	No.	Ø mm	l-mm	W	H
1600877	<b>224011</b>	16-35	260	930	1
	Ratchet pipe cutter niro size 1				
1600885	<b>224021</b>	35-66	360	1710	1
	Ratchet pipe cutter niro size 2				
1621440	<b>224211</b>	26 x 6.3 x 4.8		7	1
	Cutting wheel size 1 + 2				
1621459	<b>224611</b>			3	1
	Wheel bolt size 1 + 2				

**225**

**PIPE CUTTER for copper pipes**

- Special compact design
- Body in pressure-cast aluminium
- With retractable deburring tool, spare cutting wheel in handle



Code	No.	Ø mm	l-mm	W	H
1460412	<b>225010</b>	3-35	185	435	1

**225**

**PIPE CUTTER NIRO for stainless steel pipes**

- Special compact design
- Body in pressure-cast aluminium
- With retractable deburring tool, spare cutting wheel in handle
- Cutting wheel with high service life



Code	No.	Ø mm	l-mm	W	H
1568418	<b>225011</b>	3-35	185	435	1

**E 225**

**SPARE PARTS**

Code	No.	l-mm	W	H
1467824	<b>225210</b>	19.5 x 4.8 x 5	5	1
	Cutting wheel			
1154710	<b>230411</b>	20 x 4.8 x 5.1	5	1
	Cutting wheel for stainless steel			
1467832	<b>225510</b>		40	1
	Pressure roller			
1467840	<b>225610</b>		3	1
	Wheel bolt			
1467859	<b>225710</b>		3	1
	Pressure roller bolt			

**2261**

**SHEARS SET for plastic pipes**

- To cut plastic pipes
- Also suitable for rubber hoses as well as various plastic profiled sections
- Contains form blocks for 16, 19 and 25 mm pipes, 1 prism for profiles and 1 angle stop adjustable up to 45°
- Delivery in plastic case no. 226090



Code	No.	W	H
1637983	<b>226100</b>	1.1	1



E 2261					
PARTS					
Code	No.				
1637975	<b>226000</b>		320		1
	Shears for plastic pipes				
1637991	<b>226001</b>		36		1
	Prism block 90°				
1638009	<b>226002</b>		29		1
	Form block 16 + 19 mm				
1638017	<b>226003</b>		31		1
	Form block 25 mm				
1638025	<b>226004</b>		69		1
	Angle support				
1680137	<b>226005</b>		50		1
	Spare knife				
1680145	<b>226006</b>		50		1
	Standard support				
1637967	<b>226090</b>		570		1
	Plastic case for 226100				

2265					
PIPE CUTTER for plastic pipes					
<ul style="list-style-type: none"> <li>Cutting knife driven via ratchet feed</li> <li>Up to 35 mm Ø</li> <li>Body in pressure-cast aluminium</li> </ul>					
Code	No.				
1220470	<b>226535</b>		195	680	1
	Pipe cutter for plastic pipes				
1231162	<b>226635</b>			30	1
	Spare knife				

2268					
PIPE SHEARS for plastic pipes					
<ul style="list-style-type: none"> <li>Smooth and accurate cutting, one hand operation</li> <li>Suitable to cut plastic pipes PE, PP, PVC, PVDF, PB and VPE</li> <li>Also suitable for rubber hoses</li> <li>Body from aluminium</li> </ul>					
Code	No.	up to Ø mm			
1746073	<b>226842</b>	42	440		1
1952684	<b>226863</b>	63	650		1

E 2268					
SPARE PARTS					
Code	No.				
1952692	<b>226942</b>		80		1
	Spare knife for 226842				
1952706	<b>226963</b>		150		1
	Spare knife for 226863				

227					
PIPE CUTTER for plastic pipes					
<ul style="list-style-type: none"> <li>With high-speed adjustment feature</li> <li>Frame in light-alloy</li> <li>No. 227020: With fold-out deburring knife and spare cutting wheel in the handle</li> <li>Cutting wheels for copper pipes can be used</li> </ul>					
Code	No.	Ø mm	l-mm		
4629260	<b>227020</b>	6-50	175	375	1
4629180	<b>227055</b>	50-140	350	1345	1

228					
PIPE CUTTER for copper pipes					
<ul style="list-style-type: none"> <li>With high-speed adjustment feature</li> <li>Frame in light-alloy</li> <li>No. 228020: With fold-out deburring knife and spare cutting wheel in the handle</li> <li>Cutting wheels for plastic pipes can be used</li> </ul>					
Code	No.	Ø mm	l-mm		
4629770	<b>228020</b>	6-50	175	375	1
4629930	<b>228055</b>	50-140	350	1345	1

E 227 - E 228					
SPARE PARTS					
Code	No.	for No.	l-mm		
4629420	<b>227220</b>	-020	22 x 6.1 x 4.9	5	1
	Cutting wheel for plastic				
4629690	<b>227255</b>	-055	53 x 11 x 8	20	1
	Cutting wheel for plastic				
4630000	<b>228220</b>	-020	18 x 6.1 x 4.9	4	1
	Cutting wheel for copper				
4630190	<b>228230</b>	-055	23 x 11 x 8	11	1
	Cutting wheel for copper				
1467867	<b>227520</b>	-020		10	1
	Pressure roller for 227 + 228				
1467883	<b>227555</b>	-055		40	1
	Pressure roller for 227 + 228				
4632130	<b>227620</b>	-020		3	1
	Wheel bolt for 227 + 228				
4632210	<b>227630</b>	-055		10	1
	Wheel bolt for 227 + 228				
1467905	<b>227720</b>	-020		3	1
	Pressure roller bolt for 227+228				
1467921	<b>227755</b>	-055		5	1
	Pressure roller bolt for 227+228				

229					
PIPE CUTTER for copper pipes					
<ul style="list-style-type: none"> <li>Body in pressure-cast zinc</li> <li>With mill in handle</li> </ul>					
Code	No.	Ø mm	l-mm		
4503910	<b>229010</b>	3-35	185	470	1

E 229					
SPARE PARTS					
Code	No.	l-mm			
4504640	<b>230210</b>	20 x 4.8 x 5.1	5		1
	Cutting wheel				
1154400	<b>230511</b>		4		1
	Pressure roller				
4537220	<b>229610</b>		3		1
	Wheel bolt				
1467948	<b>230710</b>		3		1
	Pressure roller bolt				

2300					
PIPE CUTTER QUICK AUTOMATIC					
<ul style="list-style-type: none"> <li>Suitable for various materials</li> <li>Body in pressure-cast zinc</li> <li>Automatic infeed by plate springs</li> <li>Fold-out deburring knife, with spare cutting wheel</li> </ul>					
Code	No.	Size	Ø mm	l-mm	
4504050	<b>230010</b>	1	4-32	165	435
4504130	<b>230020</b>	2	13-65	275	1460



**2303**

**PIPE CUTTER QUICK AUTOMATIC NIRO for stainless steel pipes**

- Body in pressure-cast zinc
- Automatic infeed by plate springs
- Cutting wheel with high service life



Code	No.	Size	Ø mm	l mm	W mm	Wt kg
1154990	<b>230311</b>	1	4-32	165	430	1
1154850	<b>230321</b>	2	13-65	275	1420	1

**E 2300 - E 2303**

**SPARE PARTS**

Code	No.	for size	l mm	W mm	Wt kg	
4504640	<b>230210</b>	1	20 x 4.8 x 5.1	5	1	
	Cutting wheel					
4504800	<b>230220</b>	2	32 x 9.9 x 6.1	18	1	
	Cutting wheel					
1154710	<b>230411</b>	1	20 x 4.8 x 5.1	5	1	
	Cutting wheel for stainless steel					
1154680	<b>230421</b>	2	32 x 9.9 x 6.1	18	1	
	Cutting wheel					
1154400	<b>230511</b>	1		4	1	
	Pressure roller					
1154370	<b>230521</b>	2		30	1	
	Pressure roller					
1154656	<b>230611</b>	1		3	1	
	Wheel bolt					
1154540	<b>230621</b>	2		3	1	
	Wheel bolt					
1467948	<b>230710</b>	1		3	1	
	Pressure roller bolt					
1467956	<b>230720</b>	2		3	1	
	Pressure roller bolt					

**231**

**PIPE CUTTER MINI-QUICK**

- Particularly suitable for barely-accessible places
- Body in pressure-cast zinc



Code	No.	Ø mm	l mm	W mm	Wt kg
4504560	<b>231000</b>	4-16	50	125	1

**E 231**

**SPARE PARTS**

Code	No.	l mm	W mm
4504640	<b>230210</b>	20 x 4.8 x 5.1	5
	Cutting wheel		
1154710	<b>230411</b>	20 x 4.8 x 5.1	5
	Cutting wheel for stainless steel		
1467964	<b>231510</b>		2
	Pressure roller		
1154656	<b>230611</b>		3
	Wheel bolt		
1467972	<b>231710</b>		1
	Pressure roller bolt		

**2320**

**PIPE DEBURRING REAMER**

- For internal and external deburring of thin-walled pipes
- Plastic body



Code	No.	Ø mm	l mm	W mm	Wt kg
1439510	<b>232001</b>	4-32	45	30	1

**2325**

**PIPE DEBURRING REAMER for stainless steel pipes**

- For internal and external deburring of stainless steel pipes
- Aluminium body
- Hardened taper section with 40 deburring blades



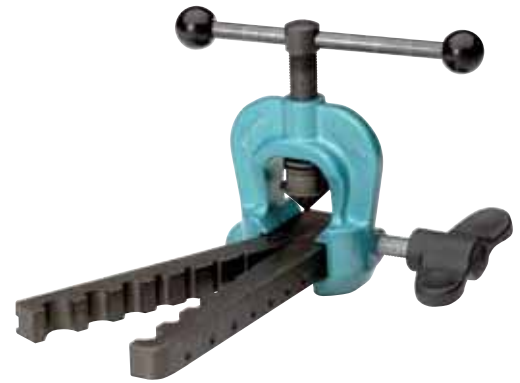
Code	No.	Ø mm	l mm	W mm	Wt kg
1419684	<b>232500</b>	10-56	85	420	1
1857681	<b>232501</b>	8-35	60	180	1

**FLARING TOOLS**

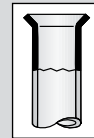
**2330**

**FLARING TOOL BOERDEX®**

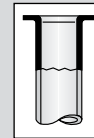
- For flaring copper and light-alloy pipes, brass and soft steel pipes
- Body in pressure-cast zinc, clamping jaws made from steel
- Opening angle 90° = 45° angled from pipe



Code	No.	External pipe Ø mm / Ø inch	W mm	Wt kg
4537300	<b>233001</b>	4 4,75 6 8 10 12 14	1.4	1
4554660	<b>233007</b>	3/16 1/4 5/16 3/8 7/16 1/2 5/8 3/4"	1.5	1
1919725	<b>233009</b>	15 16 17 18 19	1.4	1



90°



180°

with cone 233200

**2333**

**FLARING TOOL SET BOERDEX®**

- For flaring copper and light-alloy pipes, brass and soft steel pipes
- Body in pressure-cast zinc, clamping jaws made from steel
- Opening angle 90° = 45° angled from pipe
- With additional pipe cutter no. 230010 and cone for 180° flaring no. 233200
- Delivery in sheet steel case no. 233909



Code	No.	External pipe Ø mm / Ø inch	W mm	Wt kg
4555550	<b>233301</b>	4 4,75 6 8 10 12 14	2.9	1
4556280	<b>233307</b>	3/16 1/4 5/16 3/8 7/16 1/2 5/8 3/4"	3.0	1
1919733	<b>233309</b>	15 16 17 18 19	2.9	1



### E 233

#### PARTS



Code	No.	620	1
4554150	<b>233000</b> Flaring tool boerdex size 1	660	1
4554740	<b>233057</b> Flaring tool boerdex size 7+9	620	1
4554820	<b>233101</b> Clamping jaw size 1: 4-14 mm	620	1
4555470	<b>233107</b> Clamping jaw size 7: 3/16-3/4"	680	1
1885162	<b>233109</b> Clamping jaw size 9: 15-19 mm	620	1
4505450	<b>233200</b> Cone for 180° flaring (= 90° angled from pipe)	15	1
4504050	<b>230010</b> Pipe cutter QUICK AUTOMATIC 4-32 mm Ø	435	1
4556360	<b>233909</b> Sheet steel case	1040	1

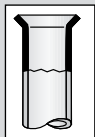
### 234

#### DOUBLE FLARING TOOL SET

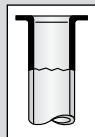
- For brake lines, coolant lines, hydraulic and pneumatic pipes with a wall thickness of 0.7 to 1.0 mm
- Body in tempered cast iron GTW 40, clamping jaws made from steel
- Complete set for metric and/or inch pipes
- Delivery in sheet steel case no. 234901



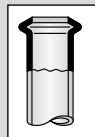
Code	No.	3.0	1
4505530	<b>234001</b> <b>for metric pipes</b> 1 basic frame No. 234000 1 clamping jaw metric No. 234101 6 cones 4,75-10 mm No. 234204-234210 1 cone 90° for flare types D+E, No. 234790 1 cone metric, 180°, for flare types E+F, No. 234801 1 miniature pipe cutter 4-16 mm No. 231000 1 pipe deburring reamer 4-32 mm No. 232001 1 sheet steel case No. 234901	3.0	1
4537570	<b>234002</b> <b>for inch pipes</b> 1 basic frame No. 234000 1 clamping jaw inch No. 234102 4 cones 3/16-3/8" No. 234303-234306 1 cone 90° for flare types D+E, No. 234790 1 cone inch, 180°, for flare types E+F, No. 234802 1 miniature pipe cutter 4-16 mm No. 231000 1 pipe deburring reamer 4-32 mm No. 232001 1 sheet steel case No. 234901	3.0	1
4662980	<b>234013</b> <b>for metric + inch pipes</b> 1 basic frame No. 234000 1 clamping jaw metric No. 234101 1 clamping jaw inch No. 234102 6 cones 4,75-10 mm No. 234204-234210 4 cones 3/16-3/8" No. 234303-234306 1 cone 90° for flare types D+E, No. 234790 1 cone metric, 180°, for flare types E+F, No. 234801 1 cone inch, 180°, for flare types E+F, No. 234802 1 miniature pipe cutter 4-16 mm No. 231000 1 pipe deburring reamer 4-32 mm No. 232001 1 sheet steel case No. 234901	4.2	1



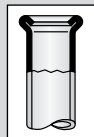
Flare D 90°



180°



Flare F Open

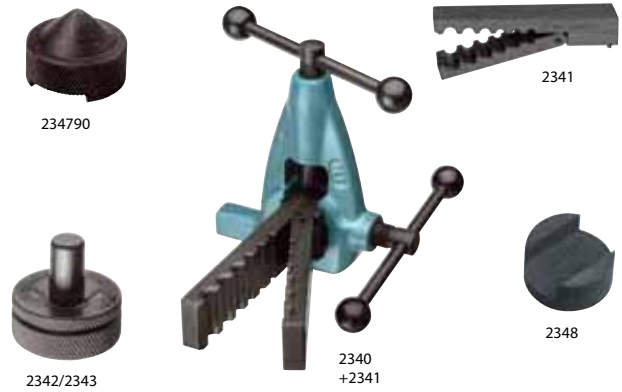


Flare E double

### E 234

#### PARTS

- No. 234204-234210 and no. 234303-234306 for flares type E+F DIN 74234



Code	No.	880	1
4556440	<b>234000</b> Basic frame	880	1
4556520	<b>234101</b> Clamping jaw metric	760	1
4556600	<b>234102</b> Clamping jaw inch	760	1
4556790	<b>234204</b> Cone 4,75 mm	18	1
4556870	<b>234205</b> Cone 5 mm	18	1
4556950	<b>234206</b> Cone 6 mm	18	1
4557090	<b>234208</b> Cone 8 mm	18	1
4557170	<b>234209</b> Cone 9 mm	18	1
4557250	<b>234210</b> Cone 10 mm	18	1
4557330	<b>234303</b> Cone 3/16"	18	1
4557410	<b>234304</b> Cone 1/4"	18	1
4557680	<b>234305</b> Cone 5/16"	18	1
4557760	<b>234306</b> Cone 3/8"	18	1
4557840	<b>234790</b> Cone 90° for flare types D+E	16	1
4557920	<b>234801</b> Cone (adjustment gauge), metric, 180°, for flare types E+F	11	1
4558060	<b>234802</b> Cone (adjustment gauge), inch, 180°, for flare types E+F	11	1
4504560	<b>231000</b> Pipe cutter MINI-QUICK, 4-16 mm	125	1
1439510	<b>232001</b> Pipe deburring reamer	30	1
4558140	<b>234901</b> Sheet steel case	1040	1

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### CALIBRATING TOOLS

#### 239

#### CALIBRATING TOOL

- For exact calibrating of tube ends
- For semi-hard and soft copper pipes



Code	No.	Ø mm	62	1
4506260	<b>239010</b>	10 x 1	62	1
4506340	<b>239012</b>	12 x 1	67	1
4506420	<b>239015</b>	15 x 1	138	1
4506500	<b>239018</b>	18 x 1	179	1
4506690	<b>239022</b>	22 x 1	270	1
4506770	<b>239028</b>	28 x 1,5	485	1



**PIPE BENDING SYSTEMS**

For further detailed technical information about pipe benders see page 381-383



**PIPE BENDER**

**240**

**PIPE BENDER SET**

- ✔ For pipes from 12 to 22 mm Ø, bends up to 180°
- ✔ With slide rail for semi-hard or soft copper pipes DIN EN 1057, uncoated or coated soft steel pipes, as well as aluminium and brass pipes
- ✔ With roller for coated copper pipes, uncoated or coated soft steel pipes, as well as aluminium and brass pipes
- ✔ Designed for vice clamping
- ✔ In assembly case no. 240090



Code	No.	17.9
4537730	<b>240001</b> 1 ea. pipe bender with counter-support No. 240212, 12 mm Ø No. 240215, 15 mm Ø No. 240218, 18 mm Ø No. 240222, 22 mm Ø 1 ea. bending lever with slide rail No. 240162, 12 mm Ø No. 240165, 15 mm Ø No. 240168, 18 mm Ø No. 240172, 22 mm Ø 1 hand lever, 12-22 mm Ø No. 240318 1 pipe cutter 4-35 mm No. 922910 1 pipe deburring reamer 4-32 mm No. 232001 1 assembly case No. 240090	17.9
4632800	<b>240501</b> 1 ea. pipe bender with counter-support No. 240212, 12 mm Ø No. 240215, 15 mm Ø No. 240218, 18 mm Ø No. 240222, 22 mm Ø 1 ea. bending lever with roller No. 240662, 12 mm Ø No. 240665, 15 mm Ø No. 240668, 18 mm Ø No. 240672, 22 mm Ø 1 hand lever, 12-22 mm Ø No. 240318 1 pipe cutter 4-35 mm No. 922910 1 pipe deburring reamer 4-32 mm No. 232001 1 assembly case No. 240090	17.9
4562250	<b>240090</b> Assembly case, empty	4.6

**2400**

**PIPE BENDER with slide rail**

- ✔ For pipes from 12 to 22 mm Ø, bends up to 180°
- ✔ With slide rail for semi-hard or soft copper pipes DIN EN 1057, uncoated or coated soft steel pipes, as well as aluminium and brass pipes
- ✔ Designed for use with a vice



Code	No.	Ø mm	r = mm	1.7	1	E
2001284	<b>240010</b>	10	45	1.7	1	E
4561790	<b>240012</b>	12	45	1.7	1	
4561870	<b>240014</b>	14	65	2.0	1	
4561950	<b>240015</b>	15	65	2.1	1	
4562090	<b>240016</b>	16	65	3.6	1	
4562170	<b>240018</b>	18	80	3.5	1	
4632560	<b>240020</b>	20	80	3.4	1	
4537810	<b>240022</b>	22	80	4.4	1	

**2405**

**PIPE BENDER with roller**

- ✔ For pipes from 12 to 22 mm Ø, bends up to 180°
- ✔ With roll cart for coated copper pipes, uncoated or coated soft steel pipes, as well as aluminium and brass pipes
- ✔ Designed for use with a vice



Code	No.	Ø mm	r = mm	1.7	1	E
2001292	<b>240510</b>	10	45	1.7	1	E
4633020	<b>240512</b>	12	45	1.7	1	
4633100	<b>240514</b>	14	65	2.0	1	
4633290	<b>240515</b>	15	65	2.1	1	
4633370	<b>240516</b>	16	65	3.6	1	
4633450	<b>240518</b>	18	80	3.5	1	
4633530	<b>240520</b>	20	80	3.4	1	
4633610	<b>240522</b>	22	80	4.4	1	

**E 2402**

**BENDING FORMER with counter-support**



Code	No.	Ø mm	r = mm	0.7	1	E
2001306	<b>240210</b>	10	45	0.7	1	E
4563060	<b>240212</b>	12	45	0.7	1	
4563140	<b>240214</b>	14	65	1.0	1	
4563220	<b>240215</b>	15	65	0.9	1	
4563300	<b>240216</b>	16	65	1.8	1	
4563490	<b>240218</b>	18	80	1.8	1	
4632720	<b>240220</b>	20	80	1.7	1	
4563570	<b>240222</b>	22	80	2.8	1	



### E 2401

BENDING LEVER with slide rail



Code	No.	Ø mm	r = mm			
2001314	<b>240110</b>	10	45	1.0	1	
4562330	<b>240112</b>	12	45	1.0	1	
4562410	<b>240114</b>	14	65	1.1	1	
4562680	<b>240115</b>	15	65	1.1	1	
4562760	<b>240116</b>	16	65	1.7	1	
4562840	<b>240118</b>	18	80	1.7	1	
4632640	<b>240120</b>	20	80	1.7	1	
4562920	<b>240122</b>	22	80	2.2	1	

### E 2406

BENDING LEVER with roller



Code	No.	Ø mm	r = mm			
2001322	<b>240610</b>	10	45	1.0	1	
4633880	<b>240612</b>	12	45	1.0	1	
4633960	<b>240614</b>	14	65	1.1	1	
4634180	<b>240615</b>	15	65	1.1	1	
4634260	<b>240616</b>	16	65	1.7	1	
4634340	<b>240618</b>	18	80	1.7	1	
4634420	<b>240620</b>	20	80	1.7	1	
4634500	<b>240622</b>	22	80	2.2	1	

### E 2401

BENDING FORK with slide rail

Without hand lever



Code	No.	Ø mm	r = mm			
2001330	<b>240160</b>	10	45	0.4	1	
1595490	<b>240162</b>	12	45	0.4	1	
1745425	<b>240164</b>	14	65	0.9	1	
1262424	<b>240165</b>	15	65	0.9	1	
1745433	<b>240166</b>	16	65	0.9	1	
1745441	<b>240168</b>	18	80	1.4	1	
1745468	<b>240170</b>	20	80	1.4	1	
1745476	<b>240172</b>	22	80	1.4	1	



Deviant packing units see article description.

### E 2406

BENDING FORK with roller

Without hand lever



Code	No.	Ø mm	r = mm			
2001349	<b>240660</b>	10	45	0.4	1	
1745484	<b>240662</b>	12	45	0.4	1	
1745492	<b>240664</b>	14	65	0.9	1	
1745506	<b>240665</b>	15	65	0.9	1	
1745514	<b>240666</b>	16	65	0.9	1	
1745522	<b>240668</b>	18	80	1.4	1	
1745530	<b>240670</b>	20	80	1.4	1	
1745549	<b>240672</b>	22	80	1.4	1	

### E 2403

HAND LEVER



Code	No.	for Ø mm		
4563730	<b>240318</b>	12-22	770	1

## PIPE BENDING PLIERS

### 2410

PIPE BENDING PLIERS

- From 4.75 to 12 mm Ø, bends up to 180°
- For copper pipes DIN EN 1057 and all non-ferrous metal pipes
- Thin-walled precision steel pipes and brake lines



Code	No.	Ø mm	r = mm	± mm		
4564460	<b>241005</b>	4,75-5,0	18	255	525	1
4564540	<b>241006</b>	6,0	18	275	520	1
4564620	<b>241008</b>	8,0	28	340	780	1
4564700	<b>241010</b>	10,0	28	400	1110	1
4634690	<b>241012</b>	12,0	35	400	1800	1

### 2415

PIPE BENDING PLIERS

- With bending formers for sizes 3/16" to 1/4" Ø (4,75 - 6 mm Ø) and 8 to 10 mm Ø bends up to 90°
- For copper pipes DIN EN 1057 and all non-ferrous metal pipes
- Thin-walled precision steel pipes and brake lines



Code	No.	Ø mm	± mm		
1442007	<b>241500</b>	4,75-10,0	260	530	1





**E 2415**

**SPARE BENDING FORMER**



Code	No.	Ø mm	Ø inch	r = mm	± mm	⊞
1442910	<b>241506</b>	4,75-6,0	3/16-1/4	15	40	1
1442929	<b>241510</b>	8,0-10,0		15	40	1

**2420**

**PIPE BENDING PLIERS with slide rail**

- ✔ From 10 to 22 mm Ø, bends up to 90°
- ✔ For soft copper pipes DIN EN 1057



Code	No.	Ø mm	r = mm	± mm	± mm	⊞
1461516	<b>242010</b>	10,0	30	420	1.4	1
1461524	<b>242012</b>	12,0	30	420	1.4	1
1461532	<b>242014</b>	14,0	45	560	2.1	1
1409417	<b>242015</b>	15,0	45	560	2.2	1
1461540	<b>242016</b>	16,0	60	560	2.2	1
1409433	<b>242018</b>	18,0	74	820	3.0	1
1461567	<b>242020</b>	20,0	75	820	3.7	1
1461575	<b>242022</b>	22,0	75	820	5.4	1



**2423**

**PIPE BENDING PLIERS with roller**

- ✔ From 10 to 22 mm Ø, bends up to 90°
- ✔ For bendable steel and stainless steel pipes (max. wall thickness 1.5 mm)
- ✔ Also available on request with chemical nickel-plating



Code	No.	Ø mm	r = mm	± mm	± mm	⊞
4564890	<b>242310</b>	10,0	43	420	1.4	1
4564970	<b>242312</b>	12,0	43	420	1.4	1
4565000	<b>242315</b>	15,0	60	560	2.1	1
4565190	<b>242318</b>	18,0	74	820	2.9	1
4538030	<b>242320</b>	20,0	86	820	3.6	1
4565270	<b>242322</b>	22,0	86	820	4.2	1

**2424**

**PIPE BENDING PLIERS with slide rail**

- ✔ From 10 to 22 mm Ø, bends up to 90°
- ✔ For bendable steel pipes (max. wall thickness 1.5 mm)
- ✔ Also available on request with chemical nickel-plating



Code	No.	Ø mm	r = mm	± mm	± mm	⊞
4565350	<b>242410</b>	10,0	43	420	1.4	1
4626670	<b>242412</b>	12,0	43	420	1.4	1
4565430	<b>242415</b>	15,0	60	560	2.1	1
4565510	<b>242418</b>	18,0	74	820	2.9	1
4565780	<b>242420</b>	20,0	86	820	3.6	1
4565860	<b>242422</b>	22,0	86	820	4.3	1

**2425**

**PIPE BENDING PLIERS HH with slide rail**

- ✔ From 10 to 22 mm Ø, bends up to 90°
- ✔ For semi-hard and soft copper pipes DIN EN 1057



Code	No.	Ø mm	r = mm	± mm	± mm	⊞
1224697	<b>242510</b>	10,0	43	420	1.4	1
1224689	<b>242512</b>	12,0	43	420	1.4	1
1224670	<b>242515</b>	15,0	60	560	2.0	1
1224050	<b>242518</b>	18,0	74	820	2.8	1
1223720	<b>242520</b>	20,0	86	820	3.6	1
1223690	<b>242522</b>	22,0	86	820	4.1	1





**MANUAL BENDING TOOLS**

**243**

**MANUAL BENDING TOOL SET**

- ▶ In different sizes up to 90° or 180°
- ▶ For soft copper pipes DIN EN 1057, heat insulated copper pipes, thin-walled precision steel pipes and other pipes in non-ferrous metals
- ▶ Use in a vice possible with bending former holder no. 243040
- ▶ Delivery in assembly case No. 243090
- ▶ Special sets may be assembled to order



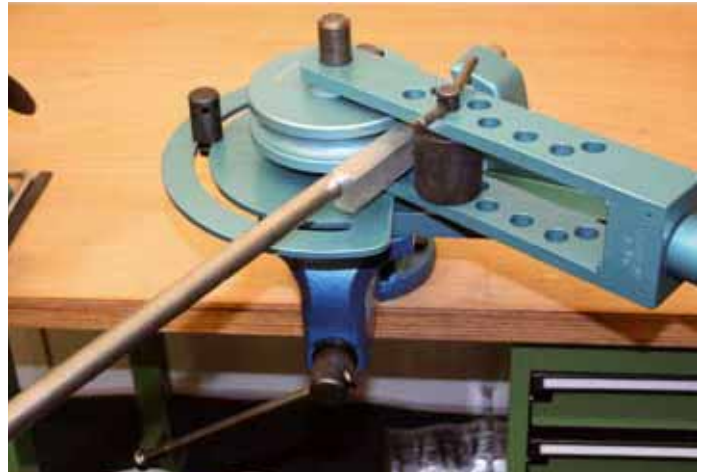
Code	No.	↕
4568450	<b>243100</b> 1 bending lever 90° No. 243010 1 hand lever 90° No. 243020 1 hand lever 180° No. 243030 1 bending former holder, stationary No. 243040 1 bending former 8 mm Ø No. 243051 1 bending former 10 mm Ø No. 243053 1 bending former 12 mm Ø No. 243055 1 bending former 14 mm Ø No. 243057 1 bending former 15 mm Ø No. 243058 1 pipe cutter 4-32 mm Ø No. 230010 1 sheet steel case No. 243090	8.7
4538380	<b>243200</b> 1 bending lever 90° No. 243010 1 hand lever 90° No. 243020 1 bending former 8 mm Ø No. 243051 1 bending former 10 mm Ø No. 243053 1 bending former 12 mm Ø No. 243055 1 bending former 15 mm Ø No. 243058 1 sheet steel case No. 243090	6.3
4568530	<b>243600</b> 1 bending lever 90° No. 243010 1 hand lever 90° No. 243020 1 hand lever 180° No. 243030 1 bending former holder, stationary No. 243040 1 bending former 5/16" Ø No. 243065 1 bending former 3/8" Ø No. 243066 1 bending former 7/16" Ø No. 243067 1 bending former 1/2" Ø No. 243068 1 bending former 5/8" Ø No. 243069 1 pipe cutter 4-32 mm Ø No. 230010 1 sheet steel case No. 243090	8.8
4568610	<b>243700</b> 1 bending lever 90° No. 243010 1 hand lever 90° No. 243020 1 bending former 5/16" Ø No. 243065 1 bending former 3/8" Ø No. 243066 1 bending former 1/2" Ø No. 243068 1 bending former 5/8" Ø No. 243069 1 sheet steel case No. 243090	6.3

**E 243**

**PARTS**



Code	No.	↕
4566320	<b>243010</b> Bending lever 90 degrees	980
4566400	<b>243020</b> Hand lever 90 degrees	580
4566590	<b>243030</b> Hand lever 180 degrees	520
4566670	<b>243040</b> Bending former holder, stationary	1020
4504050	<b>230010</b> Pipe cutter QUICK AUTOMATIC 4-32 mm Ø	435
4568370	<b>243090</b> Sheet steel case	3460



**E 243**

**BENDING FORMER**



Code	No.	Ø <sup>in</sup> mm	Ø mm	WICU*	r = mm	↕	☒
4566750	<b>243050</b>		6,0		28	225	1
4566830	<b>243051</b>		8,0		28	200	1
4566910	<b>243052</b>		9,0		28	210	1
4567050	<b>243053</b>		10,0	6	35	320	1
4567130	<b>243054</b>		11,0		35	325	1
4567210	<b>243055</b>		12,0	8	35	300	1
4567480	<b>243056</b>		13,0		45	520	1
4567560	<b>243057</b>		14,0	10	45	460	1
4567640	<b>243058</b>		15,0		45	420	1
4567720	<b>243059</b>		16,0	12	45	405	1
4567800	<b>243065</b>	5/16	7,9		28	220	1
4567990	<b>243066</b>	3/8	9,5		35	340	1
4568020	<b>243067</b>	7/16	11,1		35	315	1
4568100	<b>243068</b>	1/2	12,7		45	495	1
4568290	<b>243069</b>	5/8	15,9		45	410	1







**244**

**MANUAL BENDING TOOL SET**

- ✔ In different sizes up to 180°
- ✔ For copper pipes DIN EN 1057, heat insulated copper pipes, steel pipes and other pipes in non-ferrous metals, hydraulic pipes
- ✔ For use in a vice
- ✔ Power enhancing lever mechanism for easy operation
- ✔ Delivery in assembly case no. 244090
- ✔ Special sets may be assembled to order



Code	No.			
4571750	<b>244100</b> 1 basic tool body No. 244070 1 bending lever No. 244080 6 bending formers for pipes with Ø 15, 16, 18, 20, 22, 28 mm 1 pipe cutter 4-32 mm Ø No. 230010 1 sheet steel case No. 244090		25.4	
4571830	<b>244200</b> 1 basic tool body No. 244070 1 bending lever No. 244080 4 bending formers for pipes with Ø 15, 18, 22, 28 mm 1 sheet steel case No. 244090		22.4	
4573450	<b>244600</b> 1 basic tool body No. 244070 1 bending lever No. 244080 4 bending formers for pipes with Ø 5/8, 3/4, 7/8, 1" 1 pipe cutter 4-32 mm Ø No. 230010 1 sheet steel case No. 244090		22.8	
4568880	<b>244010</b> 1 basic tool body No. 244070 1 bending lever No. 244080 1 sheet steel case No. 244090 without bending formers		14.3	

Detailed information on products, promotions and trade fairs



... [www.gedore.com](http://www.gedore.com)



**E 244**

**PARTS**





Code	No.			
4569930	<b>244070</b> Basic tool body		4.9	1
4571590	<b>244080</b> Bending lever		2.4	1
4504050	<b>230010</b> Pipe cutter QUICK AUTOMATIC 4-32 mm Ø		0.4	1
4571670	<b>244090</b> Sheet steel case		7.0	1

**E 244**

**BENDING FORMER with slide rail**





Code	No.	Ø"inch	Ø mm	r = mm		
4571910	<b>244210</b>		10,0	40	0.9	1
4572050	<b>244212</b>		12,0	40	0.9	1
4572210	<b>244214</b>		14,0	50	1.2	1
4572480	<b>244215</b>		15,0	50	1.1	1
4572560	<b>244216</b>		16,0	50	1.1	1
4572720	<b>244218</b>		18,0	65	1.5	1
4572800	<b>244220</b>		20,0	65	1.4	1
4572990	<b>244222</b>		22,0	85	2.3	1
4573100	<b>244225</b>		25,0	100	3.5	1
4573290	<b>244228</b>		28,0	100	3.2	1
4573370	<b>244230</b>		30,0	100	3.1	1
4568960	<b>244035</b>	5/8	15,9	50	1.1	1
4569180	<b>244036</b>	3/4	19,05	65	1.5	1
4569260	<b>244037</b>	7/8	22,2	85	2.1	1
4569340	<b>244038</b>	1	25,4	100	3.4	1

**2450**

**COPPER PIPE BENDING SPRING**

- ✔ From 6.5 to 16 mm
- ✔ For soft copper pipes DIN EN 1057



Code	No.	Ø mm	l=mm		
4573610	<b>245006</b>	6,5	250	55	5
4538460	<b>245008</b>	8,0	250	90	5
4538540	<b>245010</b>	10,0	275	110	5
4538620	<b>245012</b>	12,0	300	180	5
4538700	<b>245015</b>	15,0	300	200	5
4574180	<b>245016</b>	16,0	300	275	5

Deviant packing units see article description.



**2454****PIPE BENDER SET FOR COMPOSITE PIPES hydraulic**

- ▶ From 16 to 32 mm Ø, bends up to 90°
- ▶ For multi-layer composite pipes
- ▶ Hydraulic drive without great effort
- ▶ In plastic case no. 245490



Code	No.	
1443550	<b>245410</b> 1 basic tool, hydraulic no. 245670 4 bending formers with supports for pipes with Ø 16, 20, 26, 32 mm 1 plastic case no. 245490	7.3
1443348	<b>245400</b> 1 basic tool, hydraulic no. 245670 1 plastic case no. 245490 without bending formers and supports	4.1

**2456****PIPE BENDER SET hydraulic**

- ▶ From 10 to 22 mm Ø, bends up to 90°
- ▶ For soft copper pipes DIN EN 1057 to 22 mm, soft WICU® pipes, precision steel pipes up to 18 x 1.5 mm
- ▶ Mechanical ratchet feed
- ▶ In plastic case no. 245590



Code	No.	
4635230	<b>245610</b> 1 basic tool, hydraulic no. 245670 7 bending formers with supports for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm 1 plastic case no. 245590	6.2
4635150	<b>245600</b> 1 basic tool, hydraulic no. 245670 1 plastic case no. 245590 without bending formers and supports	4.1

**2455****PIPE BENDER SET MANUAL**

- ▶ From 10 to 22 mm Ø, bends up to 90°
- ▶ For soft copper pipes DIN EN 1057 to 22 mm and soft WICU® pipes
- ▶ Mechanical ratchet feed
- ▶ In plastic case no. 245590



Code	No.	
4634850	<b>245510</b> 1 basic tool, mechanical no. 245570 7 bending formers with supports for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm 1 plastic case no. 245590	5.0
4634770	<b>245500</b> 1 basic tool, mechanical no. 245570 1 plastic case no. 245590 without bending formers and supports	2.9

**2456****PIPE BENDER SET hydraulic, heavy-duty**

- ▶ From 6 to 22 mm Ø, bends up to 90°
- ▶ For soft copper pipes DIN EN 1057 to 22 mm, soft WICU® pipes, precision steel pipes up to 18 x 2 mm
- ▶ Annealed stainless steel pipes up to 18 x 1.2 mm
- ▶ Hydraulic drive without great effort
- ▶ In plastic case no. 245690



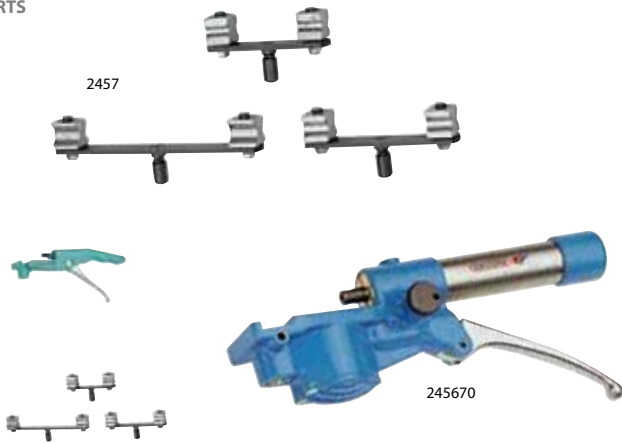
Code	No.	
1585495	<b>245611</b> 1 basic tool, hydraulic no. 245670 10 bending formers with supports for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20, 22 mm 1 plastic case no. 245690	7.5





**E 245**

**PARTS**



Code	No.	Ø mm	mm	kg
4634930	<b>245570</b> Basic tool, mechanical		1150	1
4635310	<b>245670</b> Basic tool, hydraulic		2350	1
4635580	<b>245710</b> Counter-support size 1	5-12	380	1
4635660	<b>245720</b> Counter-support size 2	14-17	460	1
1585509	<b>245721</b> Counter-support size 2 reinforced		380	1
4635740	<b>245730</b> Counter-support size 3	18-24	460	1
1585517	<b>245731</b> Counter-support size 3 reinforced		480	1
1443356	<b>245740</b> Counter-support for composite pipes	16	340	1
1443364	<b>245750</b> Counter-support for composite pipes	20	440	1
1443372	<b>245760</b> Counter-support for composite pipes	26	480	1
1443380	<b>245770</b> Counter-support for composite pipes	32	840	1
1585533	<b>245902</b> Reinforcement for counter-support size 2		280	1
1585541	<b>245903</b> Reinforcement for counter-support size 3		320	1
1585525	<b>245910</b> Ring for reinforcement for counter-support		120	1
1443437	<b>245490</b> Plastic case empty for no. 2425		1700	1
4635070	<b>245590</b> Plastic case empty for no. 2455 + 2456		1700	1
1585568	<b>245690</b> Plastic case empty for no. 245611		1700	1

**E 245**

**BENDING FORMER**

► No. 245916-245932 for composite pipes



Code	No.	Ø mm	r = mm	mm	kg
4635820	<b>245805</b>	5	31	100	1
4635900	<b>245806</b>	6	31	100	1
4636040	<b>245808</b>	8	31	100	1
4636120	<b>245810</b>	10	31	100	1
4636200	<b>245812</b>	12	34	110	1
4636390	<b>245814</b>	14	41	120	1
4636470	<b>245815</b>	15	48	140	1
4636550	<b>245816</b>	16	49	150	1
4636630	<b>245817</b>	17	51	140	1
4636710	<b>245818</b>	18	72	190	1
4636980	<b>245820</b>	20	80	200	1
4637010	<b>245822</b>	22	88	200	1
4637280	<b>245824</b>	24	90	200	1
1443399	<b>245916</b>	16	49	140	1
1443402	<b>245920</b>	20	80	180	1
1443410	<b>245926</b>	26	93	240	1
1443429	<b>245932</b>	32	119	480	1

**PIPE BENDING MACHINES**

**246**

**PIPE BENDING MACHINE manual-hydraulic**

- From 12 to 28 mm Ø, bends up to 180°
- For semi-hard and soft copper pipes DIN EN 1057 up to 28 mm Ø, stainless steel pipes up to 22 x 1.5 mm, hydraulic and soft steel pipes up to 22 x 2 mm, gas and water pipes DIN 2440 3/8" up to 3/4", and composite pipes up to 26 mm Ø
- With installation tripod
- Delivery in assembly case



Code	No.	kg
4538890	<b>246100</b> 1 bending tool No. 246010 5 bending formers for pipes with Ø 12, 15, 18, 22, 28 mm	57.0
4574260	<b>246010</b> 1 basic tool without pump No. 246070 1 pump, 60 kN pressure, No. 246080 1 stand No. 268000	49.0

**E 246**

**PARTS**

Code	No.	mm	kg
4574340	<b>246070</b> Basic tool without hydraulic pump	15.5	1
4574420	<b>246080</b> Hydraulic pump 60 kN pressure	16.2	1
4599760	<b>268000</b> Installation tripod	6.2	1
4637360	<b>246003</b> Pressure roller, waisted pattern 3/8"-3/4"	0.3	1

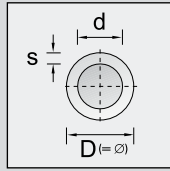
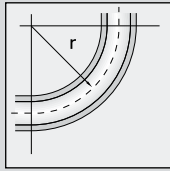
**E 246**

**BENDING FORMER**

- No. 246103-246107: AF sizes use with pressure roller no. 246003
- No. 246306-246328 with slide rail



Code	No.	Size	Ø mm	r = mm	mm	kg
4637440	<b>246103</b>	3/8	17,2	55	1.2	1
4637520	<b>246105</b>	1/2	21,3	65	1.7	1
4637600	<b>246107</b>	3/4	26,9	85	3.6	1
4637870	<b>246306</b>		6,0	35	0.6	1
4637950	<b>246308</b>		8,0	35	0.5	1
4638090	<b>246310</b>		10,0	45	0.5	1
4575070	<b>246312</b>		12,0	45	0.5	1
4575150	<b>246314</b>		14,0	55	0.9	1
4575230	<b>246315</b>		15,0	55	0.9	1
4575310	<b>246316</b>		16,0	75	1.1	1
4575580	<b>246317</b>		17,0	75	1.1	1
4575660	<b>246318</b>		18,0	75	1.4	1
4575740	<b>246320</b>		20,0	75	1.8	1
4575820	<b>246322</b>		22,0	85	2.0	1
4638170	<b>246324</b>		24,0	85	3.1	1
4575900	<b>246325</b>		25,0	85	3.1	1
4638250	<b>246326</b>		26,0	85	4.0	1
4576040	<b>246328</b>		28,0	112	4.0	1



▼ Electric extension cables - see page 365



**249**

**PIPE BENDING MACHINE manual-hydraulic**

- ▼ For sizes up to 54 mm Ø, bends up to 90°
- ▼ For copper pipes, precision steel and hydraulic pipes, uncoated and coated pipes, composite pipes, electrical installation pipes etc.
- ▼ With installation tripod
- ▼ Delivery in assembly case



Code	No.	Weight
4580150	<b>249000</b> Pump manual-hydraulic, 100 kN pressure No. 254200 Base plate with tripod No. 249310 Double open ended spanner 17x19 mm No. 249389, without bending tools	76.0

**249**

**PIPE BENDING MACHINE electro-hydraulic**

- ▼ For sizes up to 54 mm Ø, bends up to 90°
- ▼ For copper pipes, precision steel and hydraulic pipes, uncoated and coated pipes, composite pipes, electrical installation pipes etc.
- ▼ Electrical limiter for high degree of repeating accuracy in pipe bends
- ▼ With installation tripod
- ▼ Delivery in assembly case



Code	No.	Weight
4580230	<b>249001</b> Electrical pump, 100 kN pressure, 3-phase AC 380-415 V, No. 254601, Base plate with tripod No. 249311, Double open ended spanner 17x19 mm No. 249389, without bending tools	111.0
1547593	<b>249002</b> as No. 249001, but with electrical pump, 100 kN pressure, AC 230 V, No. 254651	111.0

**E 249**

**PARTS**

Code	No.	Weight	Quantity
4582280	<b>249310</b> Base plate with stand for manual-hydraulic bending tool	42.5	1
4640310	<b>249311</b> Base plate with stand for electro-hydraulic bending tool	53.7	1
4640580	<b>249389</b> Double open ended spanner 17x19 mm	0.1	1
4584810	<b>254200</b> Pump, manual-hydraulic, 100 kN pressure	21.5	1
1599984	<b>254601</b> Pump 2" 380-415 V with electrical limiter	40.0	1
1599992	<b>254651</b> Pump 2" 230 V with electrical limiter	40.0	1

**E 249**

**BENDING SETS**

- ▼ Consisting of bending former with aluminium slide rail and pipe holder
- ▼ For shaping stainless steel pipes up from r = 150 mm and 1.5 mm wall thickness a steel slide rail is required. Please state when ordering!
- ▼ Special sizes available on request



Code	No.	Size	Ø mm	Size M	Precision steel pipes	WICU*	Cu pipes DIN EN		r = mm	Weight	Quantity
							1057	coated			
1527339	<b>249812</b>	12,0	12	12	12	12	12	85	2.9	1	
4640660	<b>249815</b>	15,0			15		15	85	2.9	1	
4654290	<b>249816</b>	16,0	16	16	12	16	16	85	2.9	1	
4654370	<b>249818</b>	18,0			18		18	85	2.9	1	
4654530	<b>249820</b>	20,0			20		20	18 85	2.9	1	
1546090	<b>249020</b>	20,0	20					100	3.9	1	
4654610	<b>249822</b>	22,0			22		22	85	2.9	1	
4582520	<b>249825</b>	25,0			25			85	3.5	1	
1546120	<b>249025</b>	25,0	25					100	3.9	1	
4582600	<b>249828</b>	28,0			28			85	3.5	1	
4580310	<b>249028</b>	28,0					28	100	3.5	1	
4582790	<b>249830</b>	30,0			30			28 85	3.4	1	
4580580	<b>249030</b>	30,0			30			28 100	3.7	1	
4580660	<b>249032</b>	32,0			32			100	3.6	1	
1546147	<b>249132</b>	32,0	32					150	7.5	1	
4580820	<b>249035</b>	35,0			35			100	6.0	1	
4580900	<b>249135</b>	35,0					35	150	7.3	1	
4581120	<b>249138</b>	38,0			38			150	7.1	1	
4581200	<b>249140</b>	40,0			40			150	7.7	1	
1546163	<b>249240</b>	40,0	40					200	12.9	1	
4581470	<b>249142</b>	42,0			42			150	7.7	1	
1561944	<b>249242</b>	42,0					42	200	13.4	1	
4581550	<b>249145</b>	45,0			45			150	7.5	1	
4581710	<b>249250</b>	50,0	50	50				200	13.1	1	
4582010	<b>249254</b>	54,0						200	12.4	1	
1742655	<b>249503</b>	3/8	17,2					85	4.0	1	
1639935	<b>249505</b>	1/2	21,3					100	6.5	1	
1422820	<b>249507</b>	3/4	26,9					100	6.5	1	
1276190	<b>249510</b>	1	33,7					150	6.5	1	
1549561	<b>249512</b>	1.1/4	42,4					150	7.5	1	
1232401	<b>249515</b>	1.1/2	48,3					200	14.5	1	

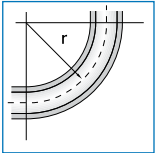
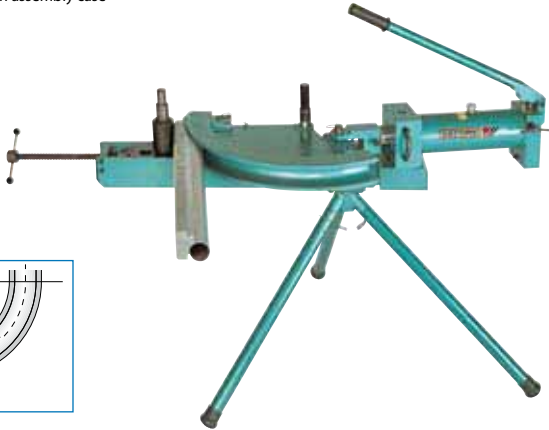




**250**

**PIPE BENDING MACHINE manual-hydraulic**

- ✔ Sizes up to 60.3 mm Ø, bends up to 90°
- ✔ For thin-walled stainless steel pipes up from 0.8 mm wall thickness, copper pipes, precision steel and hydraulic pipes, uncoated and coated pipes, composite pipes, electrical installation pipes etc.
- ✔ With installation tripod
- ✔ Easy handling
- ✔ Delivery in assembly case

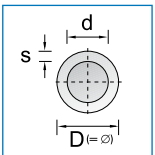


Code	No.	
4583760	<b>250000</b> 1 Pump, manual-hydraulic, 160 kN pressure, No. 254300, 1 Base plate No. 250010, 1 Installation tripod No. 268001, without bending tools	155.0

**250**

**PIPE BENDING MACHINE electro-hydraulic**

- ✔ Sizes up to 60.3 mm Ø, bends up to 90°
- ✔ For thin-walled stainless steel pipes up from 0.8 mm wall thickness, copper pipes, precision steel and hydraulic pipes, uncoated and coated pipes, composite pipes, electrical installation pipes etc.
- ✔ Electrical limiter for repeating accuracy in pipe bends
- ✔ With installation tripod
- ✔ Easy handling
- ✔ Delivery in assembly case



Code	No.	
4583840	<b>250001</b> 1 Pump, electro-hydraulic, 160 kN pressure, 3-phase AC 380-415 V, No. 254701, 1 Base plate No. 250010, 1 Installation tripod No. 268001, without bending tools	175.0
1380133	<b>250002</b> as No. 250001, but with 1 Pump, electro-hydraulic, 160 kN pressure, AC 230 V, No. 254751	175.0

✔ Electric extension cables - see page 365



**E 250**

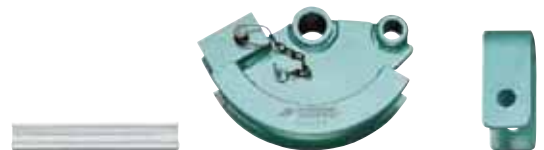
**PARTS**

Code	No.	
4583920	<b>250010</b> Base plate without stand for 250	108.3
4599840	<b>268001</b> Installation tripod	17.4
4585030	<b>254300</b> Pump, manual-hydraulic, 160 kN	29.3
1600001	<b>254701</b> Pump 3" 380-415 V with electrical limiter	48.0
1600028	<b>254751</b> Pump 3" 230 V with electrical limiter	48.0

**E 250**

**BENDING SETS**

- ✔ Consisting of bending former with aluminium slide rail and pipe holder
- ✔ Also available on request with chemical nickel-plating - please enquire!



Code	No.		Size	Ø mm	r = mm		
4655690	<b>250325</b>			25,0	100	7.5	1
1380141	<b>250328</b>			28,0	100	7.5	1
1679155	<b>250330</b>			30,0	150	13.0	1
4655770	<b>250340</b>			40,0	200	15.0	1
4640900	<b>250352</b>			52,0	350	41.0	1
2001152	<b>250354</b>			54,0	250	21.0	1
4640820	<b>250305</b>		1/2	21,3	100	7.5	1
4655180	<b>250307</b>		3/4	26,9	100	7.5	1
1147978	<b>250510</b>		1	33,7	100	7.5	1
4655260	<b>250310</b>		1	33,7	150	13.0	1
1147986	<b>250512</b>		1.1/4	42,4	150	13.0	1
4655340	<b>250312</b>		1.1/4	42,4	200	15.0	1
1147994	<b>250515</b>		1.1/2	48,3	200	15.0	1
4655420	<b>250315</b>		1.1/2	48,3	250	21.0	1
1148001	<b>250520</b>		2	60,3	250	21.0	1
4655500	<b>250320</b>		2	60,3	400	55.0	1

Deviant packing units see article description.



# HYDRAULIC UNIVERSAL PIPE BENDING MACHINES

## max. bending capacities Pipe bending machines 255-261

Bender no.	Gas and water pipes DIN 2440/2441		Distilling pipes DIN 2448		Electrical installation pipes DIN EN 60423	Railing tubes*)	Metric tubes*)	
	up to 90° Size	up to 180° Size	up to 90° Size	up to 90° Ø mm	up to 90° Nominal size	up to 90° Size	up to 90° Ø mm	up to 180° Ø mm
255 - 256	3/8 - 1.1/4"	-	3/8 - 1"	25 - 32	M12 - M20	3/8 - 3/4"	14 - 35	-
257 - 258	3/8 - 2"	3/4 - 1.1/2"	3/8 - 1.12"	25 - 51	M12 - M40	3/8 - 1.1/4"	14 - 50	25 - 50
259 - 260	3/8 - 3"	-	3/8 - 2.1/2"	25 - 76	M12 - M50	3/8 - 2"	14 - 70	-
261	3/8 - 4"	-	3/8 - 2.1/2"	25 - 76	M12 - M50	3/8 - 2"	14 - 70	-

\*) Specifications under reserve - as these are dependent on the respective wall thickness

### 255-261

#### PIPE BENDING MACHINE manual-hydraulic, fold-open

- Available in different voltages
- For gas and water pipes DIN 2440/2441, bends up to 90°
- Options available: Bending formers and counter-supports for bends up to 180°, for distilling pipes DIN 2448 and railing tubes - see no. 263 to 267
- Formers for stainless steel pipes available on request
- Delivery in assembly case



### 255-261

#### PIPE BENDING MACHINE electro-hydraulic, fold-open

- Available in different voltages
- For gas and water pipes DIN 2440/2441, bends up to 90°
- Options available: Bending formers and counter-supports for bends up to 180°, for distilling pipes DIN 2448 and railing tubes - see no. 263 to 267
- Formers for stainless steel pipes available on request
- Options available with electrical limiter (sizes 1.1/4", 2", 3")
- Delivery in assembly case



255-259



261

Code	No.	Size	included in delivery	Weight
4586190	<b>255000</b>	1.1/4	without bending formers	39.0
4586270	<b>255100</b>	1.1/4	with 5 bending formers No. 263103-112	48.0
4587400	<b>257000</b>	2	without bending formers	54.0
4587590	<b>257100</b>	2	with 7 bending formers No. 263103-120	75.0
4588720	<b>259000</b>	3	without bending formers	98.0
4588800	<b>259100</b>	3	with 9 bending formers No. 263103-130	173.0
4590030	<b>261000</b>	4	without bending formers	320.0
4644060	<b>261100</b>	4	with 10 bending formers No. 263103-130 + 263040	493.0

Code	No.	Size	included in delivery	Drive	Weight
4586350	<b>255500</b>	1.1/4	without bending formers	380-415 V	65.0
4586430	<b>255510</b>	1.1/4	with 5 bending formers No. 263103-112	380-415 V	74.0
4586510	<b>255600</b>	1.1/4	without bending formers	230 V	65.0
4586780	<b>255610</b>	1.1/4	with 5 bending formers No. 263103-112	230 V	74.0
4587670	<b>257500</b>	2	without bending formers	380-415 V	78.0
4587750	<b>257510</b>	2	with 7 bending formers No. 263103-120	380-415 V	99.0
4587830	<b>257600</b>	2	without bending formers	230 V	78.0
4587910	<b>257610</b>	2	with 7 bending formers No. 263103-120	230 V	99.0
4588990	<b>259500</b>	3	without bending formers	380-415 V	123.0
4589020	<b>259510</b>	3	with 9 bending formers No. 263103-130	380-415 V	198.0
4589100	<b>259600</b>	3	without bending formers	230 V	123.0
4589290	<b>259610</b>	3	with 9 bending formers No. 263103-130	230 V	198.0
4590110	<b>261500</b>	4	without bending formers	380-415 V	330.0
4644140	<b>261510</b>	4	with 10 bending formers No. 263103-130 + 263040	380-415 V	503.0



Deviant packing units see article description.

Electric extension cables - see page 365







**256-260**

**PIPE BENDING MACHINE manual-hydraulic, open**

- ▶ Available in different voltages
- ▶ For gas and water pipes DIN 2440/2441, bends up to 90°
- ▶ Options available: Bending formers and counter-supports for bends up to 180°, for distilling pipes DIN 2448 and railing tubes - see no. 263 to 267
- ▶ Formers for stainless steel pipes available on request
- ▶ Delivery in assembly case



256-258

Code	No.	Size	included in delivery	↕
4586860	<b>256000</b>	1.1/4	without bending formers	47.0
4586940	<b>256100</b>	1.1/4	with 5 bending formers No. 263103-112	56.0
4588050	<b>258000</b>	2	without bending formers	73.0
4588130	<b>258100</b>	2	with 7 bending formers No. 263103-120	94.0
4589370	<b>260000</b>	3	without bending formers	120.0
4589450	<b>260100</b>	3	with 9 bending formers No. 263103-130	207.0

**256-260**

**PIPE BENDING MACHINE electro-hydraulic, open**

- ▶ Available in different voltages
- ▶ For gas and water pipes DIN 2440/2441, bends up to 90°
- ▶ Options available: Bending formers and counter-supports for bends up to 180°, for distilling pipes DIN 2448 and railing tubes - see no. 263 to 267
- ▶ Formers for stainless steel pipes available on request
- ▶ Options available with electrical limiter
- ▶ Delivery in assembly case



256-258

260

Code	No.	Size	included in delivery	Drive	↕
4587080	<b>256500</b>	1.1/4	without bending formers	380-415 V	73.0
4587160	<b>256510</b>	1.1/4	with 5 bending formers No. 263103-112	380-415 V	82.0
4587240	<b>256600</b>	1.1/4	without bending formers	230 V	73.0
4587320	<b>256610</b>	1.1/4	with 5 bending formers No. 263103-112	230 V	82.0
4588210	<b>258500</b>	2	without bending formers	380-415 V	98.0
4588480	<b>258510</b>	2	with 7 bending formers No. 263103-120	380-415 V	119.0
4588560	<b>258600</b>	2	without bending formers	230 V	98.0
4588640	<b>258610</b>	2	with 7 bending formers No. 263103-120	230 V	119.0
4589530	<b>260500</b>	3	without bending formers	380-415 V	155.0
4589610	<b>260510</b>	3	with 9 bending formers No. 263103-130	380-415 V	242.0
4589880	<b>260600</b>	3	without bending formers	230 V	155.0
4589960	<b>260610</b>	3	with 9 bending formers No. 263103-130	230 V	242.0

**268**

**INSTALLATION TRIPOD**

- ▶ Available in 2 sizes
- ▶ For benders up to max. 3"
- ▶ Pivotal



Code	No.	Height	↕
4599760	<b>268000</b>	480	6.2
4599840	<b>268001</b>	680	17.4

**2630**

**STEEL BENDING FORMER UP TO 90°**

- ▶ For gas and water pipes DIN 2440/2441



Code	No.	Use in machines	Size	Ø mm	r = mm	↕
4644220	<b>263003</b>	255-261	3/8	17,2	45	1.5
4655850	<b>263005</b>	255-261	1/2	21,3	50	1.3
4655930	<b>263007</b>	255-261	3/4	26,9	75	2.2
4656070	<b>263010</b>	255-261	1	33,7	100	2.3
4656150	<b>263012</b>	255-261	1.1/4	42,4	126	5.8
4656230	<b>263015</b>	257-261	1.1/2	48,3	145	5.3
4656310	<b>263020</b>	257-261	2	60,3	200	11.2
4656580	<b>263025</b>	259-261	2.1/2	76,1	320	21.2
4656660	<b>263030</b>	259-261	3	88,9	380	33.0
4644300	<b>263040</b>	261	4	114,3	600	98.0

- ▶ Electric extension cables - see page 365



**2631**

**GREY CAST IRON BENDING FORMER UP TO 90°**

- ▶ For gas and water pipes DIN 2440/2441



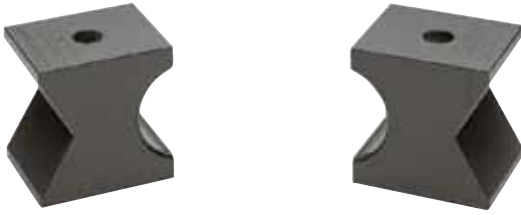
Code	No.	Use in machines	Size	Ø mm	r = mm	↕
4539000	<b>263103</b>	255-261	3/8	17,2	45	0.9
4539190	<b>263105</b>	255-261	1/2	21,3	50	1.3
4539270	<b>263107</b>	255-261	3/4	26,9	75	2.2
4590460	<b>263110</b>	255-261	1	33,7	100	2.3
4590540	<b>263112</b>	255-261	1.1/4	42,4	115	2.4
4539350	<b>263115</b>	257-261	1.1/2	48,3	150	5.3
4539430	<b>263120</b>	257-261	2	60,3	200	6.7
4590620	<b>263125</b>	259-261	2.1/2	76,1	320	21.2
4590700	<b>263130</b>	259-261	3	88,9	380	33.0



### 2632

#### COUNTER-SUPPORT (PAIR) UP TO 90°

For surface-protective bending of uncoated steel pipes and the like



Code	No.	Use in machines	↔ mm
4591510	<b>263267</b>	257	9.0
4591780	<b>263268</b>	258	8.4
4591860	<b>263269</b>	259	15.4
4591940	<b>263270</b>	260	6.6

### 2640

#### STEEL BENDING FORMER UP TO 90°

For standard-walled distilling pipes DIN 2448 and metric pipes



Code	No.	Use in machines	Size	∅ mm	r = mm	↔ mm
4595260	<b>264003</b>	255-261	3/8	17,2	55	2.0
4595340	<b>264005</b>	255-261	1/2	21,3	75	2.5
4595420	<b>264007</b>	255-261	3/4	26,9	90	3.5
4595500	<b>264010</b>	255-261	1	33,7	130	5.4
4595690	<b>264012</b>	257-261	1.1/4	42,4	180	10.2
4596230	<b>264048</b>	257-261	1.1/2	48,3	220	11.8
4596660	<b>264060</b>	259-261	2	60,3	270	21.3
4596900	<b>264076</b>	259-261	2.1/2	76,1	420	49.3
4592750	<b>264014</b>	255-261		14,0	70	2.2
4592830	<b>264015</b>	255-261		15,0	70	2.3
4592910	<b>264016</b>	255-261		16,0	70	2.2
4593050	<b>264018</b>	255-261		18,0	90	3.4
4593130	<b>264020</b>	255-261		20,0	90	3.4
4593210	<b>264022</b>	255-261		22,0	90	3.2
4595770	<b>264025</b>	255-261		25,0	115	3.6
4595850	<b>264030</b>	255-261		30,0	140	6.7
4595930	<b>264032</b>	255-261		32,0	140	6.6
4596070	<b>264038</b>	257-261		38,0	170	8.2
4596150	<b>264044</b>	257-261		44,5	190	10.7
4596310	<b>264051</b>	257-261		51,0	220	15.4
4596580	<b>264057</b>	259-261		57,0	250	15.1
4596740	<b>264063</b>	259-261		63,5	270	22.1
4596820	<b>264070</b>	259-261		70,0	315	23.9

### 2649

#### STEEL BENDING FORMER UP TO 90°

For electrical installation pipes DIN EN 60423



Code	No.	Use in machines	∅ mm	r = mm	↔ mm
1549626	<b>264912</b>	255-261	12	115	4.1
4597390	<b>264916</b>	255-261	16	115	4.1
1549634	<b>264920</b>	255-261	20	130	5.4
1549642	<b>264925</b>	257-261	25	160	5.7
1549650	<b>264932</b>	257-261	32	170	8.7
1549669	<b>264940</b>	257-261	40	220	10.4
1549677	<b>264950</b>	259-261	50	250	19.5

### 2650

#### STEEL BENDING FORMER UP TO 90°

For railing pipes with wall thickness from 1.75 to 2.30 mm



Code	No.	Use in machines	Size	∅ mm	r = mm	↔ mm
4539510	<b>265003</b>	255-261	3/8	17,2	110	3.6
4598280	<b>265005</b>	255-261	1/2	21,3	110	3.6
4598010	<b>265007</b>	255-261	3/4	26,9	137	6.1
4598360	<b>265010</b>	257-261	1	33,7	190	9.4
4545830	<b>265012</b>	257-261	1.1/4	42,4	220	12.4
4644650	<b>265015</b>	259-261	1.1/2	48,3	250	13.7
4644730	<b>265020</b>	259-261	2	60,3	315	25.0

### 2633

#### STEEL BENDING FORMER UP TO 180°

For gas and water pipes DIN 2440/2441  
For bends up to 180° piston extension no. 260819 and counter-support no. 263503 - 263504 are required



Code	No.	Use in machines	Size	∅ mm	r = mm	↔ mm
4592240	<b>263307</b>	257-258	3/4	26,9	110	4.7
4592320	<b>263310</b>	257-258	1	33,7	115	6.1
4592400	<b>263312</b>	257-258	1.1/4	42,4	115	6.4
4592590	<b>263315</b>	257-258	1.1/2	48,3	140	9.4

### 2634

#### STEEL BENDING FORMER UP TO 180°

For metric pipes  
For bends up to 180° piston extension no. 260819 and counter-support no. 263503 - 263504 are required



Code	No.	Use in machines	∅ mm	r = mm	↔ mm
4593480	<b>263425</b>	257-258	25	110	3.5
4593560	<b>263428</b>	257-258	28	110	6.6
4593640	<b>263430</b>	257-258	30	110	6.4
4593720	<b>263432</b>	257-258	32	130	7.4
4593800	<b>263435</b>	257-258	35	130	7.1
4593990	<b>263438</b>	257-258	38	150	10.8
4594020	<b>263440</b>	257-258	40	150	10.3
4594100	<b>263442</b>	257-258	42	150	11.9
4594290	<b>263448</b>	257-258	48	150	11.3
4594370	<b>263450</b>	257-258	50	150	10.8

### 2608

#### WORKING PISTON EXTENSION

For producing hairpin bends up to 180°  
For bending formers No. 2633 and 2634

Code	No.	↔ mm	↔ mm
4696450	<b>260819</b>	160	2.4






**2635**

**COUNTER-SUPPORT (PAIR)**

- For producing hairpin bends up to 180°
- For bending formers no. 2633 and 2634




Code	No.	Use in machines	
4594610	<b>263503</b>	257	17.5
4594880	<b>263504</b>	258	16.8

**2670**

**STRAIGHTENING TOOL**

- For steel pipes and scaffold tubes 1.1/2"
- We recommend its use together with the counter-supports no. 267101 - 267102



Code	No.	Use in machines	Size	Ø mm	
4697690	<b>267015</b>	257-258	1.1/2	48,3	6.2

**2671**

**STRAIGHTENING COUNTER-SUPPORT (PAIR)**

- For steel pipes and scaffold tubes 1.1/2"
- For straightening tool no. 267




Code	No.	Use in machines	Size	Ø mm	
1548379	<b>267101</b>	257	1.1/2	48,3	8.3
1546961	<b>267102</b>	258	1.1/2	48,3	7.7

**254**

**PUMP manual-hydraulic**

- Available in various power stages
- For bending without great effort
- Option to re-fit with electrical drive no. 254950 (380-415 V) or no. 254955 (230 V)




Code	No.	Size	Use in machines	
4584730	<b>254100</b>	1.1/4	255 256	16.2
4584810	<b>254200</b>	2	249 257 258 2803 2804	21.5
4585030	<b>254300</b>	3	250 259 260	29.3
4585110	<b>254400</b>	4	261	43.0

**254**

**PUMP electro-hydraulic**

- Available in various power stages
- Option to re-fit with electrical limiter no. 254580 (size 1.1/4"), no. 254680 (size 2") or no. 254780 (size 3")




Code	No.	Size	Use in machines	Connection voltage Volt	
4585380	<b>254500</b>	1.1/4	2555 2565	380-415	35.0
4585460	<b>254550</b>	1.1/4	2556 2566	230	35.0
4585540	<b>254600</b>	2	2575 2585	380-415	40.0
4585620	<b>254650</b>	2	2576 2586	230	40.0
4585700	<b>254700</b>	3	2595 2605	380-415	48.0
4585890	<b>254750</b>	3	2596 2606	230	48.0
4585970	<b>254800</b>	4	2615	380-415	75.0

**254**

**PUMP electro-hydraulic, with electrical limiter**

- Available in various power stages
- With electrical limiter
- Pre-adjustable feed for repetition accuracy in the production of pipe bends



Code	No.	Size	Use in machines	Connection voltage Volt	
1599968	<b>254501</b>	1.1/4	2555 2565	380-415	35.0
1599976	<b>254551</b>	1.1/4	2556 2566	230	35.0
1599984	<b>254601</b>	2	249 2575 2585 2803 2804	380-415	40.0
1599992	<b>254651</b>	2	249 2576 2586 2803 2804	230	40.0
1600001	<b>254701</b>	3	250 2595 2605	380-415	48.0
1600028	<b>254751</b>	3	250 2596 2606	230	48.0



Deviant packing units see article description.

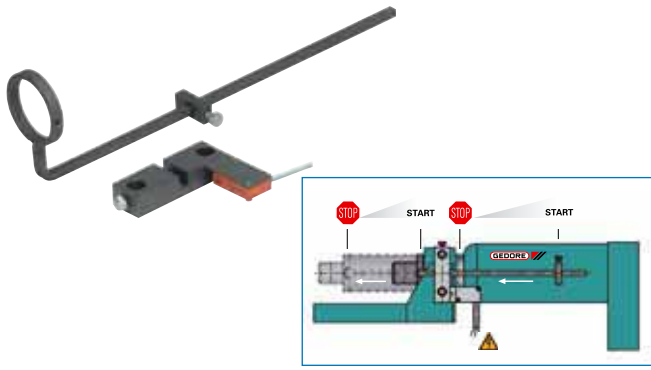




254

**ELECTRICAL LIMITER**

- For electro-hydraulic pumps 1.1/4", 2" and 3"
- Pre-adjustable feed for repetition accuracy in the production of pipe bends



Code	No.	Size	Use in machines	⚖️
1441337	<b>254580</b>	1.1/4	255 256	700
1441345	<b>254680</b>	2	249 257 258 2803 2804	750
1441353	<b>254780</b>	3	250 259 260	800

254

**ELECTRICAL CONVERSION KIT**

- For manual-hydraulic pumps 1.1/4", 2", 3" and 4"
- Consisting of electric motor, cam drive, conveying unit, carrying handle and all small parts required
- \* Can only be used in connection with electrical limiter no. 254680
- \*\* Can only be used in connection with electrical limiter no. 254780



Code	No.	Use in machines	Connection voltage Volt	⚖️
4718870	<b>254950</b>	249* 250** 255-261 280*	380-415	19.0
4718950	<b>254955</b>	249* 250** 255-261 280*	230	19.0

E 254

**GASKET SET**

- For all hydraulic pumps with machine number 254.....



Code	No.	Size	⚖️	📦
4687890	<b>254160</b>	1.1/4	70	1
Machine no. 2541....				
4689080	<b>254260</b>	2	75	1
Machine no. 2542....				
4690170	<b>254360</b>	3	80	1
Machine no. 2543....				
1549596	<b>254460</b>	4	100	1
Machine no. 2544....				
4690840	<b>254560</b>	1.1/4	70	1
Machine no. 2545....				
4624620	<b>254660</b>	2	75	1
Machine no. 2546....				
4691140	<b>254760</b>	3	80	1
Machine no. 2547....				
1378686	<b>254860</b>	4	100	1
Machine no. 2548....				

Deviant packing units see article description.

254

**EXTENSION CABLE**

- For electro-hydraulic pumps 1.1/4", 2", 3" and 4"



Code	No.	Description	Connection voltage Volt	⚖️	📦
4694080	<b>254982</b>	CEE extension cable 5 m	380-415	1.7	1
4694160	<b>254983</b>	CEE extension cable 10 m	380-415	3.1	1
4694240	<b>254984</b>	Safety extension cable 5 m	230	0.9	1
4694320	<b>254985</b>	Safety extension cable 10 m	230	1.6	1

269

**HYDRAULIC OIL 1 litre**

- The volume stated is required each time



Code	No.	for pumps	required volume litre	⚖️	📦
4599920	<b>269000</b>	1.1/4"	0,90	880	1
		2"	1,25		
		3"	1,90		
		4"	3,50		

E 255-261

**BENDING FRAME fold-open**

- Without installed parts



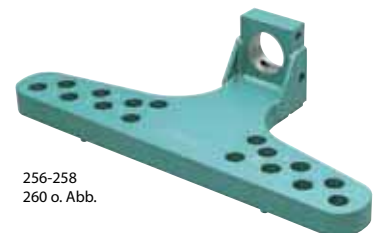
255-259  
261 o. Abb.

Code	No.	Size	Use in machines	⚖️
4641200	<b>255010</b>	1.1/4	255 2555 2556	7.7
4642010	<b>257010</b>	2	257 2575 2576	12.4
4642870	<b>259010</b>	3	259 2595 2596	37.2
4643680	<b>261010</b>	4	261 2615	281.0

E 256-260

**BENDING FRAME open**

- Without installed parts



256-258  
260 o. Abb.

Code	No.	Size	Use in machines	⚖️
4641550	<b>256010</b>	1.1/4	256 2565 2566	15.4
4642440	<b>258010</b>	2	258 2585 2586	31.2
4643170	<b>260010</b>	3	260 2605 2606	95.0







**E 255-261**

**COUNTER-SUPPORT (PIECE)**





Code	No.	Size	Use in machines		
4641390	<b>255015</b>	1.1/4	255 2555 2556	1.6	1
4641630	<b>256015</b>	1.1/4	256 2565 2566	1.4	1
4642280	<b>257015</b>	2	257 2575 2576	3.2	1
4642520	<b>258015</b>	2	258 2585 2586	2.9	1
4642950	<b>259015</b>	3	259 2595 2596	5.3	1
4643250	<b>260015</b>	3	260 2605 2606	4.3	1
4643760	<b>261015</b>	4	261 2615	15.7	1

**E 255-261**

**COUNTER-SUPPORT FIXING PIN (PIECE)**





Code	No.	Size	Use in machines		
4641470	<b>255020</b>	1.1/4	255 2555 2556	300	1
4641710	<b>256020</b>	1.1/4	256 2565 2566	850	1
4642360	<b>257020</b>	2	257 2575 2576	440	1
4642600	<b>258020</b>	2	258 2585 2586	960	1
4643090	<b>259020</b>	3	259 2595 2596	480	1
4643330	<b>260020</b>	3	260 2605 2606	2020	1
4643840	<b>261020</b>	4	261 2615	1750	1

**E 255-261**

**U-YOKE**



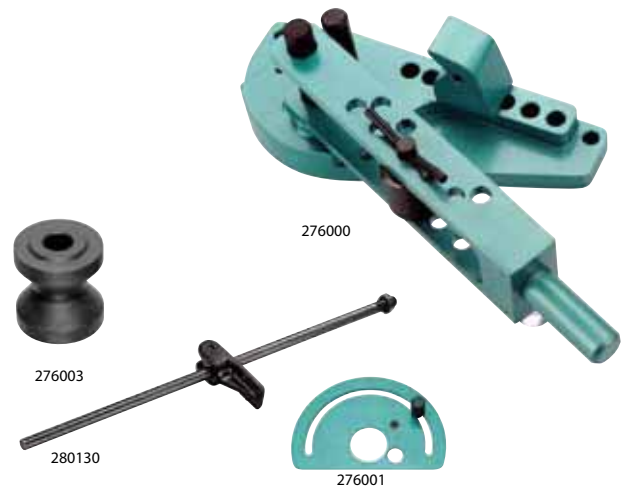
Code	No.	Size	Use in machines		
4721660	<b>256030</b>	1.1/4	255 2555 2556 256 2565 2566	180	1
4641980	<b>258030</b>	2	249 257 2575 2576 258 2585 2586 2803 2804	400	1
4643410	<b>260030</b>	3	250 259 2595 2596 260 2605 2606	480	1
4643920	<b>261030</b>	4	261 2615	900	1


**UNIVERSAL PIPE BENDER**

**276**

**UNIVERSAL PIPE BENDER**

- For sizes up to 32 mm Ø and up to 3/4" Ø, bends up to 180°
- For thin-walled steel tubes, hydraulic pipes, copper pipes DIN EN 1057, multi-layer composite pipes (MSR), non-ferrous metal pipes
- Heat insulated pipes, gas and water pipes DIN 2440/2441 and electrical installation pipes
- Also suitable for MW steel and stainless steel pipes - please enquire!
- For installation on the workbench or holding in a vice





Code	No.		
4600010	<b>276000</b>	Basic equipment with adjustable pressure roller shaft, cylindrical pressure roller, without bending tools	16.7
4600360	<b>276003</b>	Pressure roller 1/8" - 3/4"	0.5
4600280	<b>276001</b>	Angled stop	1.8
4606210	<b>280130</b>	Length stop	0.7
4719090	<b>268230</b>	Bending lever extension, 740 mm long	3.5

**E 276**

**BENDING FORMER**

- For gas and water pipes DIN 2440/2441
- Pressure roller no. 276003 is required

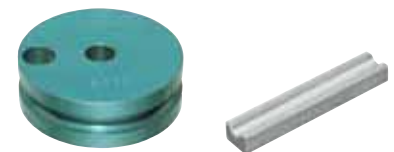




Code	No.	Size	Ø mm	r = mm		
4600440	<b>276101</b>	1/8	10,2	40	1.2	1
4600520	<b>276102</b>	1/4	13,5	40	1.2	1
4600600	<b>276103</b>	3/8	17,2	50	1.6	1
4600790	<b>276105</b>	1/2	21,3	68	2.4	1
4600870	<b>276107</b>	3/4	26,9	80	5.8	1

**E 276**

**BENDING FORMER with slide rail**

- For metric pipes



Code	No.	Ø mm	WICU*	Size M	r = mm		
4600950	<b>276506</b>	6			40	1.5	1
4601090	<b>276508</b>	8			40	1.4	1
4601170	<b>276510</b>	10	6		40	1.4	1
4601250	<b>276512</b>	12	8		40	1.4	1
1553682	<b>276912</b>	12		12	81	6.5	1
4601330	<b>276514</b>	14	10		50	1.9	1
4601410	<b>276515</b>	15			50	1.8	1
4601680	<b>276516</b>	16	12		68	4.7	1





Code	No.	Ø mm	WICU*	Size M	r = mm		
1553690	<b>276916</b>	16		16	81	6.5	1
4601760	<b>276518</b>	18			68	4.7	1
4601840	<b>276519</b>	19	15		68	4.6	1
4601920	<b>276520</b>	20			68	4.6	1
1553704	<b>276920</b>	20		20	105	4.8	1
4602060	<b>276522</b>	22			81	6.5	1
4602140	<b>276525</b>	25		25	105	4.7	1
4602220	<b>276526</b>	26			105	4.8	1
4602300	<b>276528</b>	28			126	5.4	1
4602490	<b>276530</b>	30			153	7.0	1
4602570	<b>276532</b>	32		32	153	7.0	1

**278**

**MANUAL PIPE BENDER**

- From 3 to 10 mm Ø (size 0), 6 to 18 mm Ø (size 1) and 20 to 25 mm Ø (size 2), bends up to 180°
- For precision steel and hydraulic pipes
- For vice clamping, size 0 also usable as bending pliers



Gr. 1 + 2

Gr. 0

Code	No.	
4539780	<b>278000</b> Size 0, consisting of: - basic tool body No. 278070 - bending lever No. 278080 - 4 bending formers 3-4, 5-6, 7-8, 10 mm	1.5
4603460	<b>278100</b> Size 1, consisting of: - basic tool body No. 278170 - bending lever No. 278180 - 6 bending formers 6-8, 10-12, 14, 15, 16, 18 mm	9.3
4539860	<b>278200</b> Size 2, consisting of: - basic tool body No. 278270 - bending lever No. 278280 - 3 bending formers 20, 22, 25 mm	25.5

**2780**

**MANUAL PIPE BENDER**

- As no. 278000, but in sheet steel case no. 278090
- Contains additionally 1 pipe cutter MINI-QUICK no. 231000 and 1 pipe deburring reamer no. 232001



Code	No.	
1543199	<b>278001</b> 1 basic tool body No. 278070 1 bending lever No. 278080 4 bending formers 3-4, 5-6, 7-8, 10 mm 1 miniature pipe cutter 4-16 mm No. 231000 1 pipe deburring reamer 4-32 mm No. 232001 1 sheet steel case No. 278090	2.7

**278**

**MANUAL PIPE BENDER**

- From 3 to 10 mm Ø (size 0), 6 to 18 mm Ø (size 1) and 20 to 25 mm Ø (size 2), bends up to 180°
- For precision steel and hydraulic pipes, as well as stainless steel pipes with wall thickness as following:  
size 0 = 1.0 - 1.2 mm  
size 1 = 1.2 - 1.5 mm  
size 2 = 1.5 - 2.0 mm
- For vice clamping, size 0 also usable as bending pliers



Gr. 0

Gr. 1+2

Code	No.	
1589830	<b>278500</b> Size 0, consisting of: - basic tool body No. 278070 - bending lever No. 278080 - 4 aluminium bending formers 3-4, 5-6, 7-8, 10 mm	1.4
1589857	<b>278600</b> Size 1, consisting of: - basic tool body No. 278170 - bending lever No. 278180 - 6 aluminium bending formers 6-8, 10-12, 14, 15, 16, 18 mm	6.4
1589865	<b>278700</b> Size 2, consisting of: - basic tool body No. 278270 - bending lever No. 278280 - 3 aluminium bending formers 20, 22, 25 mm	13.0

**2785**

**MANUAL PIPE BENDER**

- As no. 278500, but in sheet steel case no. 278090
- Contains additionally 1 pipe cutter MINI-QUICK no. 231000 and 1 pipe deburring reamer no. 232001



Code	No.	
1589849	<b>278501</b> 1 basic tool body No. 278070 1 bending lever No. 278080 4 aluminium bending formers 3-4, 5-6, 7-8, 10 mm 1 miniature pipe cutter 4-16 mm No. 231000 1 pipe deburring reamer 4-32 mm No. 232001 1 sheet steel case No. 278090	2.4






**2786**

**MANUAL PIPE BENDER**

- As no. 278600, but in sheet steel case no. 278190
- Contains additionally 1 pipe cutter 4-35 mm and 1 pin punch 3 mm





Code	No.	
1611526	<b>278601</b> 1 basic tool body No. 278670 1 bending lever No. 278680 6 aluminium bending formers 6-8, 10-12, 14, 15, 16, 18 mm 1 pipe cutter 4-35 mm 1 pin punch 3 mm 1 sheet steel case No. 278190	8.3

**E 278**

**PARTS**





Code	No.		
4603110	<b>278070</b> Basic tool body size 0	640	1
4603380	<b>278080</b> Bending lever size 0	380	1
4604000	<b>278170</b> Basic tool body size 1	1240	1
4604190	<b>278180</b> Bending lever size 1	2300	1
1677209	<b>278670</b> Basic tool body size 1	1240	1
1626043	<b>278680</b> Bending lever size 1 pluggable	1930	1
4604510	<b>278270</b> Basic tool body size 2	4140	1
4604780	<b>278280</b> Bending lever size 2	3000	1
4504560	<b>231000</b> Pipe cutter MINI-QUICK, 4-16 mm	125	1
1439510	<b>232001</b> Pipe deburring reamer	30	1
1526189	<b>278090</b> Sheet steel case for 278001+501	1040	1
1611534	<b>278190</b> Sheet steel case for 278601	4180	1

**E 278**

**BENDING FORMER**

- No. 278004-278225 steel bending former
- No. 278504-278725 aluminium bending former



Code	No.	suitable for	$\varnothing$ mm	r = mm		
4602650	<b>278004</b>	Gr. 0	3-4	14	49	1
4602730	<b>278006</b>	Gr. 0	5-6	16	63	1
4602810	<b>278008</b>	Gr. 0	7-8	24	156	1
4603030	<b>278010</b>	Gr. 0	10	29	220	1
4603540	<b>278108</b>	Gr. 1	6-8	32	560	1
4603620	<b>278112</b>	Gr. 1	10-12	36	600	1
4603700	<b>278114</b>	Gr. 1	14	36	560	1
4624890	<b>278115</b>	Gr. 1	15	43	880	1
4603890	<b>278116</b>	Gr. 1	16	43	850	1
4603970	<b>278118</b>	Gr. 1	18	50	1180	1
4604270	<b>278220</b>	Gr. 2	20	85	5380	1
4604350	<b>278222</b>	Gr. 2	22	85	5180	1
4604430	<b>278225</b>	Gr. 2	25	85	4900	1
1576798	<b>278504</b>	Gr. 0	3-4	14	20	1
1576801	<b>278506</b>	Gr. 0	5-6	16	25	1
1576828	<b>278508</b>	Gr. 0	7-8	24	55	1
1576836	<b>278510</b>	Gr. 0	10	29	85	1
1576844	<b>278608</b>	Gr. 1	6-8	32	200	1
1576852	<b>278612</b>	Gr. 1	10-12	36	220	1
1576879	<b>278614</b>	Gr. 1	14	36	200	1
1576887	<b>278615</b>	Gr. 1	15	43	320	1
1576895	<b>278616</b>	Gr. 1	16	43	320	1
1576909	<b>278618</b>	Gr. 1	18	50	450	1
1576917	<b>278720</b>	Gr. 2	20	85	2000	1
1576925	<b>278722</b>	Gr. 2	22	85	1950	1
1576933	<b>278725</b>	Gr. 2	25	85	1950	1

Detailed information on products, promotions and trade fairs

... [www.gedore.com](http://www.gedore.com)



Deviant packing units see article description.



## ECCENTRIC ANGLE BENDERS

### max. bending capacities Angle benders 280

Referring to dimensions of ST37 material strength 400 N/mm<sup>2</sup> (SI-unit)

\* DIN 46433 for max. material strength F 25 = 250 N/mm<sup>2</sup>

\*\* DIN 46433 for max. material strength F 16 = 160 N/mm<sup>2</sup>

**Please note:**

To reach the maximum bending capacities special bending tools with larger radii are required - see "E 280 Parts"

	70 mm working height		100 mm working height		120 mm working height	
	cold mm	hot mm	cold mm	hot mm	cold mm	hot mm
<b>Flat steel DIN 1017</b>	70 x 10	70 x 20	100 x 10	100 x 22	120 x 8	120 x 20
	50 x 14	50 x 25	65 x 12	75 x 25	100 x 10	100 x 22
	30 x 20	35 x 30	50 x 14	35 x 30	80 x 12	80 x 25
<b>Square steel stock DIN 1014</b>	20	30	22	30	22	30
<b>Round steel stock DIN 1013</b>	20	30	25	30	25	30
<b>Angled steel stock DIN 1028</b>	70 x 5	70 x 11	100 x 10	100 x 20	120 x 10	120 x 20
<b>Cu (flat bars) DIN EN 1057 *</b>	70 x 15		100 x 30 (r=25 mm)		120 x 12 (soft:120 x 30)	
<b>Al-flat bars DIN 1769 **</b>	70 x 20		100 x 30 (r=25 mm)		120 x 15 (soft:120 x 30)	

### 280

#### ECCENTRIC ANGLE BENDER 70 mm working height

- ▀ For bends up to 110°
- ▀ For round, flat and angled stocks in steel, copper or aluminium
- ▀ Bending tools with one sharp and one rounded edge r = 4 mm
- ▀ In various designs:
  - ▀ **Manual:** Tabletop unit to be mounted on a workbench
  - ▀ **Manual-hydraulic:** Equipment mounted on installation tripod, delivery in assembly case
  - ▀ **Electro-hydraulic:** Equipment mounted on installation tripod, with electrical limiter, delivery in assembly case



Code	No.	Included in delivery	
4539940	<b>280070</b>	complete ready for use, with bending tool No. 280071, manual	24.3
4645460	<b>280370</b>	complete ready for use, with bending tool No. 280071, pump, manual-hydraulic, No. 254200, base plate with tripod No. 280210	100.2
4645540	<b>280371</b>	complete ready for use, with bending tool No. 280071, pump, electro-hydraulic, 380-415 V, No. 254601, base plate with tripod No. 280210	124.7
1547569	<b>280372</b>	complete ready for use, with bending tool No. 280071, pump, electro-hydraulic, 230 V, No. 25465, base plate with tripod No. 280210	124.7

### 280

#### ECCENTRIC ANGLE BENDER 100 mm working height

- ▀ For bends up to 110°
- ▀ For round, flat and angled stocks in steel, copper or aluminium
- ▀ Bending tools with one sharp and one rounded edge r = 4 mm
- ▀ In various designs:
  - ▀ **Manual:** Tabletop unit to be mounted on a workbench
  - ▀ **Manual-hydraulic:** Equipment mounted on installation tripod, delivery in assembly case
  - ▀ **Electro-hydraulic:** Equipment mounted on installation tripod, with electrical limiter, delivery in assembly case



Code	No.	Included in delivery	
4535010	<b>280100</b>	complete ready for use, with bending tool No. 280111, manual	26.5
4606640	<b>280400</b>	complete ready for use, with bending tool No. 280111, pump, manual-hydraulic, No. 254200, base plate with tripod No. 280210	102.4
4606720	<b>280401</b>	complete ready for use, with bending tool No. 280111, pump, electro-hydraulic, 380-415 V, No. 254601, base plate with tripod No. 280210	126.9
1547585	<b>280402</b>	complete ready for use, with bending tool No. 280111, pump, electro-hydraulic, 230 V, No. 254651, base plate with tripod No. 280210	126.9







**280**

**ECCENTRIC ANGLE BENDER 120 mm working height**

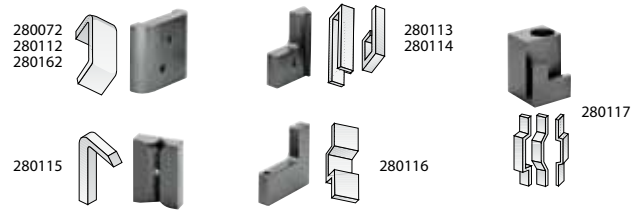
- ✔ For bends up to 110°
- ✔ For round, flat and angled stocks in steel, copper or aluminium
- ✔ Bending tools with one sharp and one rounded edge  $r = 4\text{ mm}$
- ✔ In various designs:
- ✔ **Manual:** Tabletop unit to be mounted on a workbench
- ✔ **Manual-hydraulic:** Equipment mounted on installation tripod, delivery in assembly case
- ✔ **Electro-hydraulic:** Equipment mounted on installation tripod, with electrical limiter, delivery in assembly case



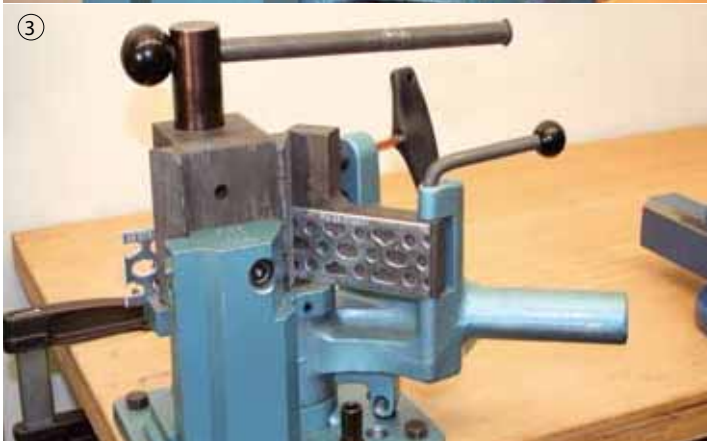
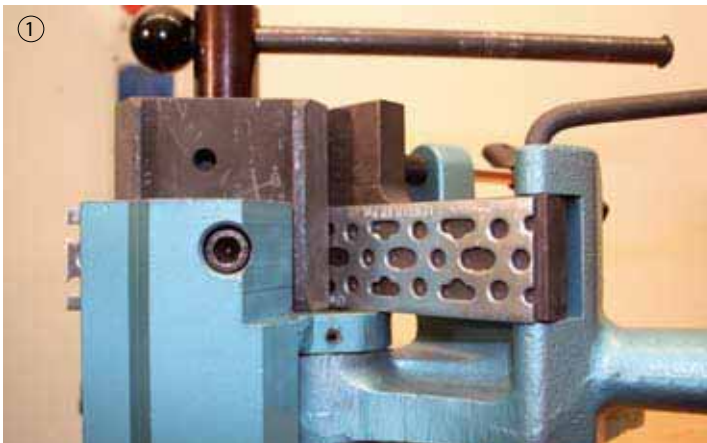
Code	No.	Included in delivery	
4606130	<b>280120</b>	complete ready for use, with bending tool No. 280161, manual	27.9
4645620	<b>280420</b>	complete ready for use, with bending tool No. 280161, pump, manual-hydraulic, No. 254200, base plate with tripod No. 280210	103.8
4645700	<b>280421</b>	complete ready for use, with bending tool No. 280161, pump, electro-hydraulic, 380-415 V, No. 254601, base plate with tripod No. 280210	128.3
1544950	<b>280422</b>	complete ready for use, with bending tool No. 280161, pump, electro-hydraulic, 230 V, No. 254651, base plate with tripod No. 280210	128.3

**E 280**

**PARTS**



Code	No.	Description	Working height			
4606210	<b>280130</b>	Length stop	70-120	0.7	1	
4605240	<b>280071</b>	Standard bending tool, sharp-edged / $r = 4\text{ mm}$	70	1.0	1	
4605400	<b>280111</b>	Standard bending tool, sharp-edged / $r = 4\text{ mm}$	100	1.5	1	
4645030	<b>280161</b>	Standard bending tool, sharp-edged / $r = 4\text{ mm}$	120	1.8	1	
4605320	<b>280072</b>	Radiused bending tool $r = 15\text{ mm} / r = 25\text{ mm}$	70	1.1	1	
4605590	<b>280112</b>	Radiused bending tool $r = 15\text{ mm} / r = 25\text{ mm}$	100	1.6	1	
4645110	<b>280162</b>	Radiused bending tool $r = 15\text{ mm} / r = 25\text{ mm}$	120	2.0	1	
4605670	<b>280113</b>	Bending tool for producing saddles and rectangular bends, for low material thicknesses, sharp-edged	100	0.9	1	
4605750	<b>280114</b>	Bending tool for producing saddles and rectangular bends, for greater material thicknesses, $r = 4\text{ mm}$	100	0.9	1	
4605830	<b>280115</b>	Bending tool for making diamond bends	100	0.7	1	
4605910	<b>280116</b>	Bending tool for high saddles (use only in connection with no. 280113 + 280114)	100	1.2	1	
4606050	<b>280117</b>	Offset block for narrow saddles	100	2.4	1	
4644810	<b>280110</b>	Modification set for 100 mm working height (includes no. 280111)	70-120	7.5	1	
4645380	<b>280174</b>	Modification set for 120 mm working height (includes no. 280114)	70-100	9.0	1	
4606560	<b>280210</b>	Base plate with stand (use only in connection with no. 254200, 254600 or 254650)	70-120	42.4	1	
4719090	<b>268230</b>	Bending lever extension, 740 mm long	70-120	3.5	1	
4584810	<b>254200</b>	Pump, manual-hydraulic, 100 kN pressure	70-120	21.5	1	
1599984	<b>254601</b>	Pump 2" 380-415 V with electrical limiter	40.0	1		
1599992	<b>254651</b>	Pump 2" 230 V with electrical limiter	40.0	1		
2009544	<b>280250</b>	Angle for vice fixture		3.3	1	





## RING BENDING MACHINE

### max. bending capacities 285

Referring to dimensions of ST37 material up to strength 400 N/mm<sup>2</sup> (SI-unit).

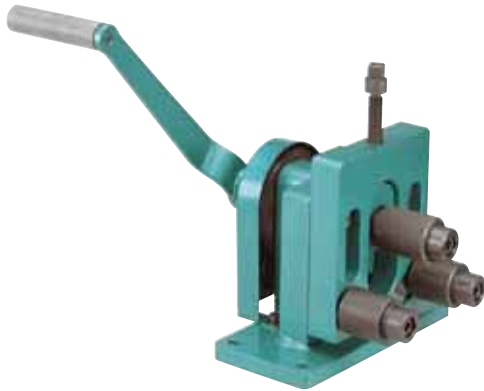
Flat bar.....	50 x 6 mm
Flat bar, vertical*).....	20 x 5 mm
Square iron*).....	13 x 13 mm
Round bar*).....	15 mm
Angled sections*).....	20 x 20 x 3 mm
T-iron*).....	20 x 20 x 3 mm
U-iron*).....	30 x 15 x 2 mm
Pipes*).....	6 x 1,0 upto 18 x 1,5 mm

\*) Please note:  
Special bending tools are required - see "E 285 Parts".

### 285

#### RING BENDING MACHINE

- ▶ Manual 3-roller ring bending machine
- ▶ Vertical operation
- ▶ Tabletop unit with upper roller drive
- ▶ Standard roller set for flat and square stock included
- ▶ With two speeds



Code	No.	
4606800	<b>285000</b>	30.6

### E 285

#### PARTS



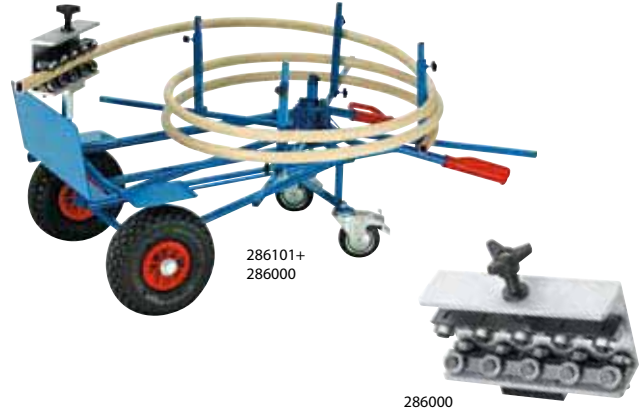
Code	No.			
4606990	<b>285001</b>	1.5	1	
2-piece upper roller for shaping L and T sections, with leg inside				
4607020	<b>285002</b>	2.7	1	
Set 2-piece lower rollers for shaping vertical flat stock, L and T sections, with leg outside				
4607100	<b>285006</b>	2.0	1	
1 set rollers for shaping tubes 6x1 mm (1 upper drive roller, 2 lower rollers)				
4607290	<b>285008</b>	2.0	1	
1 set rollers for shaping tubes 8x1 mm (1 upper drive roller, 2 lower rollers)				
4607370	<b>285010</b>	1.9	1	
1 set rollers for shaping tubes 10x1 mm (1 upper drive roller, 2 lower rollers)				
4607450	<b>285012</b>	1.9	1	
1 set rollers for shaping tubes 12x1 mm (1 upper drive roller, 2 lower rollers)				
4607530	<b>285014</b>	1.8	1	
1 set rollers for shaping tubes 14x1 mm (1 upper drive roller, 2 lower rollers)				
4607610	<b>285015</b>	1.8	1	
1 set rollers for shaping tubes 15x1 mm (1 upper drive roller, 2 lower rollers)				
4607880	<b>285016</b>	1.7	1	
1 set rollers for shaping tubes 16x1 mm (1 upper drive roller, 2 lower rollers)				
4607960	<b>285018</b>	1.7	1	
1 set rollers for shaping tubes 18x1.5 mm (1 upper drive roller, 2 lower rollers)				
2009552	<b>285250</b>	3.3	1	
Angle for vice fixture				

## PIPE STRAIGHTENING TOOL

### 286

#### PIPE STRAIGHTENING TOOL

- ▶ From 14 to 26 mm Ø
- ▶ For multi-layer composite pipes (MSR) and soft copper pipes
- ▶ For use in a vice or in connection with pivoted and mobile coil reel
- ▶ Coil reel suitable for pipe coils from 220 to 1100 mm Ø, maximum pipe-coil height 400 mm



Code	No.	
1523066	<b>286000</b>	2.5
Pipe straightening tool, without coil reel		
1531123	<b>286101</b>	22.5
Coil reel, mobile, without straightening tool		

## SEAMING PLIERS

- ▶ Sheet metal crimping and punch pliers are listed up from page 278



### 303

#### UNIVERSAL SEAMING PLIERS

- ▶ Forged
- ▶ Jaw angle adjustable in six steps from 0-90°
- ▶ Jaws exchangeable
- ▶ Jaw width 60 mm



Code	No.			
4508470	<b>303060</b>	265	785	1
Universal seaming pliers				
4608850	<b>303160</b>		275	1
Set of jaws				

### 304

#### SEAMING PLIERS

- ▶ Forged
- ▶ Straight
- ▶ Jaw width 60 mm



Code	No.			
4508550	<b>304060</b>	265	590	1

### 305

#### SEAMING PLIERS

- ▶ Forged
- ▶ Bent pattern, bending angle 45°
- ▶ Jaw width 60 mm



Code	No.			
4508630	<b>305060</b>	265	630	1






**INSTALLATION TOOLS**

**310**

**VALVE HOLDER VENTI-GRIP®**

- ▶ Forged
- ▶ Plumbing tool for holding the valve when tightening and slackening the swivel nut
- ▶ Applicable on sink units, bathtubs, toilet cisterns, etc.
- ▶ With straight handle






Code	No.	Size			
4540010	<b>310001</b> Size 1	1-1.1/4	395		1
4540280	<b>310002</b> Size 2	1.1/4-1.3/4	670		1
4609070	<b>310101</b> Spare expander size 1		25		1
4609150	<b>310102</b> Spare expander size 2		50		1

**311**

**VALVE HOLDER VENTI-GRIP®**

- ▶ Forged
- ▶ Plumbing tool for holding the valve when tightening and slackening the swivel nut
- ▶ Applicable on sink units, bathtubs, toilet cisterns, etc.
- ▶ With offset handle







Code	No.	Size			
4534980	<b>311001</b> Size 1	1-1.1/4	340		1
4508710	<b>311002</b> Size 2	1.1/4-1.3/4	665		1
4609070	<b>310101</b> Spare expander size 1		25		1
4609150	<b>310102</b> Spare expander size 2		50		1

**312**

**VALVE HOLDER VENTI-QUICK**

- ▶ In aluminium
- ▶ Drain valve holder and screw-in wrench for eccentric and standard valves 1.1/4"
- ▶ Usable from top or bottom



Code	No.				
4508980	<b>312000</b>	120	260		1






**314**

**CORNER VALVE SOCKET WRENCH**

- ▶ Chrome-vanadium steel
- ▶ For surface-protective assembling of all usual corner valves
- ▶ With chamfered driving edges
- ▶ 1/2" internal square drive

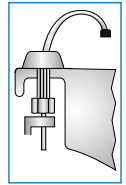





Code	No.			
1147471	<b>314000</b>	82	150	1

**315**

**BASIN PLIERS**

- ▶ Hot forged
- ▶ Applicable from size 13 to 36 mm

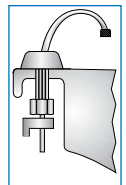





Code	No.			
4509010	<b>315000</b>	270	565	1

**316**

**BASIN WRENCH**

- ▶ Chrome-vanadium steel
- ▶ With pivoted hook for right or left hand operation
- ▶ Applicable up to size 36 mm

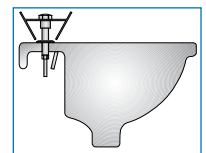





Code	No.			
4509280	<b>316000</b> Basin wrench	235	500	1
4609230	<b>316100</b> Spare hook with spring and bolt		65	1

**3165**

**BASIN WRENCH**

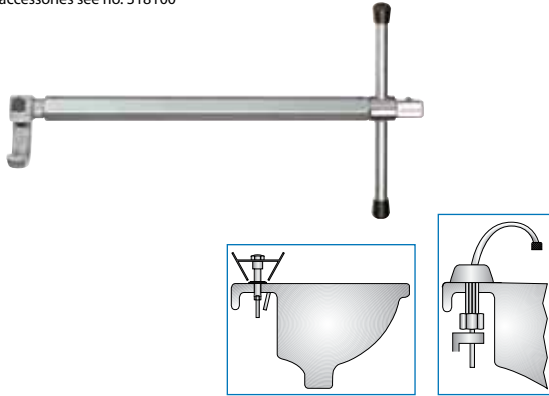
- ▶ For single lever taps
- ▶ With 13 mm hexagon drive
- ▶ With adaptors for 10, 11, 14 mm



Code	No.			
4624110	<b>316500</b> Basin wrench	260	300	1
1148141	<b>316501</b> Adaptor 10 mm		15	1
1148168	<b>316502</b> Adaptor 11 mm		15	1
1148176	<b>316503</b> Adaptor 14 mm		15	1

**3166****UNIVERSAL BASIN WRENCH**

- Suitable for many purposes, with hexagon tube size 13 mm for single lever taps
- Pawl for use up to size 36 mm
- Adaptor with cross handle and 1/2" square drive
- For further accessories see no. 318100



Code	No.				
4645970	<b>316600</b>			450	1
1 hexagon tube 13 mm Ø, 240 mm, No. 316601					
1 cross handle adaptor with 1/2" square drive No. 316603					
1 cross handle No. 316604					
1 pawl 36 mm Ø No. 316602					

**3170****INSTALLATION WRENCH**

- For bathroom fittings attachment (stud screws)
- Size 17x19 mm



Code	No.	Size	↳mm↳		
4509360	<b>317000</b>	M10, 17x19 mm	220	260	1
4609310	<b>317012</b>	M12, 17x19 mm	220	315	1

**3171****STUD SCREW WRENCH**

- For bathroom fittings attachment (stud screws)
- With pivotable thread insert
- Sizes M6, M8, M10, M12



Code	No.	↳mm↳		
4509440	<b>317100</b>	220	300	1

**3173****STUD SCREW INSERTER**

- For the fast and easy insertion and removal of studs, bolts, etc.
- With exchangeable hexagon drive



Code	No.			
1523171	<b>317306</b>		130	1
with hexagon drive, M6				
1523198	<b>317308</b>		130	1
with hexagon drive, M8				
1523201	<b>317310</b>		130	1
with hexagon drive, M10				
1523228	<b>317312</b>		130	1
with hexagon drive, M12				

**3174****STUD SCREW INSERTER**

- For the fast and easy insertion and removal of studs, bolts, etc.
- With SDS-plus holder



Code	No.			
1523236	<b>317406</b>		130	1
with SDS-plus holder, M6				
1523244	<b>317408</b>		130	1
with SDS-plus holder, M8				
1523252	<b>317410</b>		130	1
with SDS-plus holder, M10				
1523260	<b>317412</b>		130	1
with SDS-plus holder, M12				

**3175****INSTALLATION WRENCH**

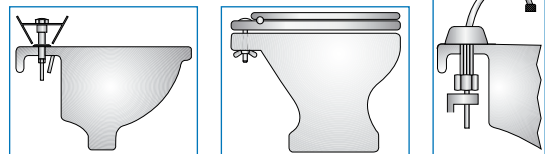
- For bathroom fittings attachment (stud screws) M10 or M12 and corner valves
- With reversible ratchet ring wrench size 17 or 19 mm and open ended spanner size 19 mm with special jaw design and thread to take stud screws M10 or M12
- Chrome-vanadium steel



Code	No.	Size	↳mm↳		
4509520	<b>317500</b>	M10, size 17x19 mm	235	270	1
4609580	<b>317512</b>	M12, size 19x19 mm	235	260	1

**3181****SANITARY INSTALLATION SET**

- Can be used for nearly all works in the bathroom
- Contains the most common tools used when installing taps of all usual models, corner valves, washbasin mountings or fittings, water connections, toilet seat fittings, etc.
- Delivery in sheet steel case no. 318190

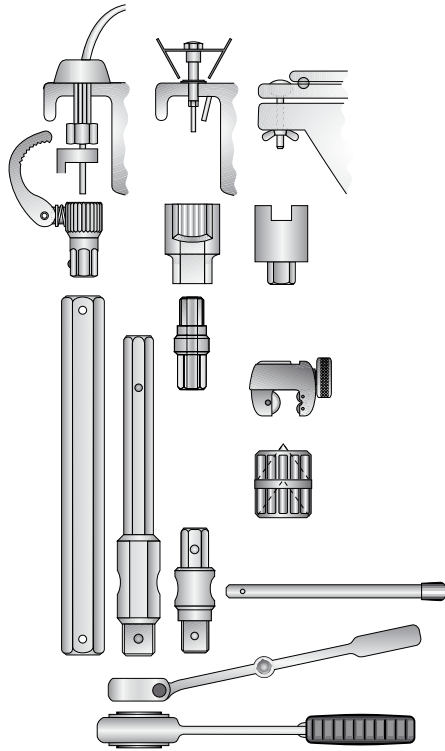


Code	No.			
4722710	<b>318100</b>		2.760	1
1 basin wrench No. 316600				
1 hexagon extension 90 mm No. 316606				
1 socket wrench 10 mm No. 316608				
1 socket wrench 11 mm No. 316609				
1 socket wrench 14 mm No. 316610				
1 adaptor for socket wrenches 1/2" No. 316605				
1 insertion hook for toilet seat fittings No. 316607				
1 ratchet 1/2" No. 380200				
1 coupler 1/2" No. 380210				
1 installation wrench No. 317500				
1 miniature pipe cutter 4-16 mm No. 231000				
1 pipe deburring reamer 4-32 mm No. 232001				



**E 318**

**PARTS**



Code	No.	mm	mm		
4698310	<b>316601</b>	190			1
	Hexagon tube 13 mm Ø, 240 mm				
4721740	<b>316602</b>	115			1
	Pawl 13 mm Ø				
4721820	<b>316603</b>	75			1
	Cross handle adaptor with 1/2" square drive				
4721900	<b>316604</b>	90			1
	Cross handle				
4722040	<b>316605</b>	50			1
	Adaptor for socket wrenches 1/2"				
4722120	<b>316606</b>	220			1
	Hexagon extension 90 mm				
4722200	<b>316607</b>	125			1
	Insertion hook for toilet seat fittings				
4722390	<b>316608</b>	55			1
	Socket wrench 10 mm				
4722470	<b>316609</b>	55			1
	Socket wrench 11 mm				
4722550	<b>316610</b>	60			1
	Socket wrench 14 mm				
4513120	<b>380200</b>	420			1
	Ratchet 1/2"				
1469029	<b>380210</b>	46			1
	Square connector 1/2"				
4509520	<b>317500</b>	270			1
	Installation wrench M10, 17x19 mm				
4504560	<b>231000</b>	125			1
	Pipe cutter MINI-QUICK, 4-16 mm				
1439510	<b>232001</b>	30			1
	Pipe deburring reamer				
4722980	<b>318190</b>	920			1
	Sheet steel case				

**320**

**WRENCH FOR PLUMBING FITTINGS**

- With exchangeable plastic jaws No. 320100
- For nickel-plated and chrome-plated fittings
- Chrome-vanadium steel

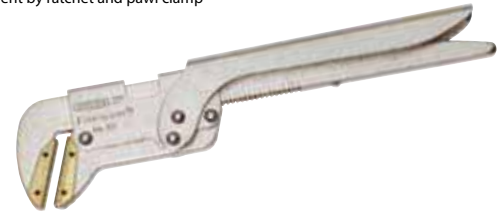


Code	No.	mm	mm		
4509600	<b>320000</b>	65	275	720	1
4540520	<b>320100</b>			10	1

**321**

**QUICK-CLAMP FITTINGS WRENCH FIXO-SPANN®**

- With exchangeable protective brass jaws No. 321100
- For nickel-plated and chrome-plated fittings
- Chrome-manganese steel
- Quick adjustment by ratchet and pawl clamp

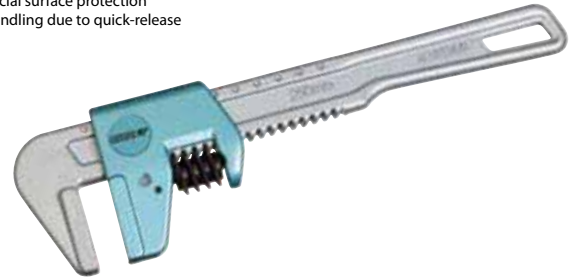


Code	No.	mm	mm		
4509790	<b>321000</b>	65	290	790	1
4540600	<b>321100</b>			25	1

**322**

**PLUMBING WRENCH**

- Forged from high-quality aluminium
- For special surface protection
- Easy handling due to quick-release



Code	No.	mm	mm		
1949802	<b>322000</b>	73	260	260	1



**324**

**QUICK-CLAMP WRENCH**

- Chrome-vanadium steel
- Quick adjustment by ratchet and pawl clamp



Code	No.	mm	mm		
4624970	<b>324000</b>	60	250	640	1

**328**

**GRIP WRENCH**

- In malleable cast iron
- With exchangeable special plastic jaws No. 328100
- For secure, damage-free gripping and holding of pipes



Code	No.	mm	mm		
4510100	<b>328000</b>	16-50	300	615	1
4609660	<b>328100</b>			30	1

**329****SPECIAL SIPHON PLIERS**

- For tightening and removing screwed PVC pipe joints with round union nuts
- With lap joint and three locking positions
- No. 329001 with plastic jaws for special surface protection



Code	No.	Ø mm	l-mm	l	l	l
4510290	<b>329000</b>	20-65	230	300	1	
1984381	<b>329001</b>	20-65	230	300	1	

**340****GUTTER BENDING PLIERS**

- Open pattern
- With adjustment screw
- With strong tube handles



Code	No.	for gutters	l-mm	l	l
4510530	<b>340006</b>	6 x 40	640	3.080	1
4510610	<b>340008</b>	8 x 40	640	3.250	1

**365****TAP RESEATING TOOL**

- Cylindrical pattern
- For the plane milling of leaky water-tap valves up to 1" without removing the tap



Code	No.	l	l
4511340	<b>365001</b>	330	1
Basic tool, flat mills 3/8", 1/2", 3/4"			
4511420	<b>365002</b>	360	1
Basic tool, flat mills 3/8", 1/2", 3/4", 1"			
4540870	<b>365005</b>	505	1
Basic tool, flat mills 3/8", 1/2", 3/4" in plastic case			
4540950	<b>365006</b>	535	1
Basic tool, flat mills 3/8", 1/2", 3/4", 1" in plastic case			

**E 365****PARTS**

Code	No.	l	l
4610160	<b>365100</b>	300	1
Basic tool, without mills and plastic case			
4610240	<b>365101</b>	5	1
Flat mill 1/4"			
4610320	<b>365103</b>	5	1
Flat mill 3/8"			
4610400	<b>365105</b>	5	1
Flat mill 1/2"			
4610590	<b>365107</b>	15	1
Flat mill 3/4"			
4625270	<b>365110</b>	25	1
Flat mill 1"			
4610080	<b>365090</b>	205	1
Plastic case			

**369****ANGLE REAMER**

- Four- and five-edged, for reaming holes in sheet metal
- Also suitable for producing measurement openings for exhaust gas analysis
- Round shaft



Code	No.	l-mm	l	l
4511500	<b>369000</b>	150	170	5

Saws are listed up from page 284

**373****BORDERING PLIERS FOR WELDERS**

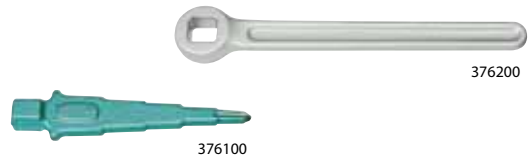
- For making fillets on welding edges on pipe joints
- Adjustable in 5 steps from 0°-180°



Code	No.	mm	mm	l-mm	l	l
4611050	<b>373001</b>	5.5	20	290	475	1
4511770	<b>373002</b>	6.0	30	300	550	1

**376****STEPPED KEY**

- For the installation and removal of valve nipples 3/8", 1/2", 3/4", 1", 1.1/4"
- Drive with 18 mm square



Code	No.	l	l
4512580	<b>376000</b>	630	1
Stepped key with handle			
4541250	<b>376100</b>	245	1
Stepped keys 3/8", 1/2", 3/4", 1", 1.1/4", enamelled blue			
4541330	<b>376200</b>	385	1
Handle with 18 mm square, 240 mm long, galvanized			





**377**

**STEPPED KEY**

- With tommy bar
- For nipples 3/8" and 1/2"



Code	No.	mm	mm
4512660	<b>377000</b>	190	1

**3785**

**PLUMBER'S WRENCH**

- With 14 functions for tap extensions 3/8", 1/2", 3/4", 1"
- For the installation and removal of radiator valves and runback screwed unions
- For stud screws M6, M8, M10, M12 and for screw plugs 3/8", 1/2"
- Hexagon drive nut size 17, 22 mm

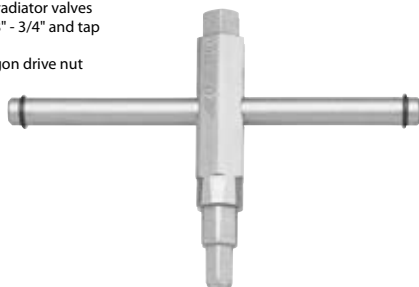


Code	No.	mm	mm
4512820	<b>378500</b>	220 x 220	670

**379**

**COMBINATION STEPPED KEY**

- With tommy bar, for nipples 3/8", 1/2" and 3/4", for the installation and removal of radiator valves
- For runback screwed unions 3/8" - 3/4" and tap extensions
- With pin, hexagon and bi-hexagon drive nut

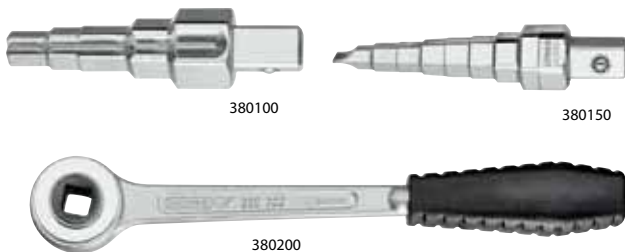


Code	No.	mm	mm
4541410	<b>379100</b>	220	1

**380**

**COMBINATION STEPPED KEY**

- For the installation and removal of radiator valves, runback screwed unions 3/8" - 1" and short tap extensions
- With pin, hexagon and bi-hexagon nut drive
- 1/2" square drive



380100

380150

380200

Code	No.	mm	mm
4512900	<b>380000</b>	555	1
Combi-stepped key No. 380100 with ratchet 1/2" No. 380200			
4630940	<b>380001</b>	555	1
Combi-stepped key No. 380150 with ratchet 1/2" No. 380200			
4513040	<b>380100</b>	135	1
Combi-stepped key with 5 steps			
4611130	<b>380150</b>	135	1
Combi-stepped key with 10 steps			
4513120	<b>380200</b>	420	1
Ratchet 1/2"			

**3805**

**COMBINATION STEPPED KEY**

- For gas and water pipe screw connections with pin, hexagon and bi-hexagon nut drive
- 1/2" square drive



Code	No.	mm	mm
4611480	<b>380501</b>	80	1
Combi-stepped key 3/8" - 1/2"			
4545910	<b>380502</b>	180	1
Combi-stepped key 1/2" - 1"			

**SHEET METAL FORMING TOOLS**

**384**

**SINGLE PUNCH**

- With 3 cutting edges
- For sheet metal up to 1.5 mm thickness, VA sheet up to 1.2 mm thickness
- Chrome-alloyed stainless steel



Code	No.	mm	mm
4513470	<b>384035</b>	35	270
Single punch			
4513550	<b>384042</b>	42	400
Single punch			
4541760	<b>384052</b>	70	1
Spare nut M12 for 35+42 mm			

**385**

**DOUBLE PUNCH**

- With 3 cutting edges
- Size 28 x 33 mm
- For sheet metal up to 1.5 mm thickness, VA sheet up to 1.2 mm thickness
- Chrome-alloyed stainless steel



Code	No.	mm	mm
4513630	<b>385007</b>	460	1
Double punch			
4611640	<b>385107</b>	240	1
Punching die			
4611720	<b>385207</b>	125	1
Punch			
4541840	<b>385300</b>	70	1
Collared screw M10			

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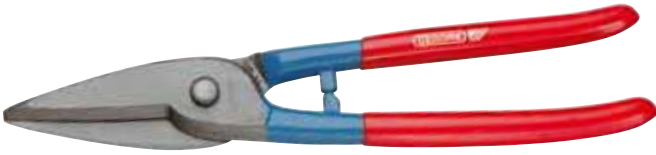


## TIN SNIPS

### 420

#### TIN SNIPS

- ▶ Right hand cutting
- ▶ For long straight cuts
- ▶ Berlin pattern
- ▶ Ground cutting edges



Code	No.	↳mm↳	↕	📦
4513710	<b>420020</b>	225	440	1
4513980	<b>420025</b>	250	440	1
4514010	<b>420030</b>	300	710	1



### 421

#### SOLE CUTTING SNIPS

- ▶ For short straight and figure cuts (great radii)
- ▶ Ground cutting edges



Code	No.	↳mm↳	↕	📦
4514280	<b>421025</b> right hand cutting	250	510	1
4514360	<b>421027</b> right hand cutting	275	520	1
4514440	<b>421030</b> right hand cutting	300	630	1
4514520	<b>421125</b> left hand cutting	250	510	1
4514600	<b>421127</b> left hand cutting	275	520	1
4514790	<b>421130</b> left hand cutting	300	630	1

### 422

#### IDEAL PATTERN SNIPS

- ▶ For straight continuous and figure cuts
- ▶ Ground cutting edges



Code	No.	↳mm↳	↕	📦
4514870	<b>422026</b> right hand cutting	260	510	1
4514950	<b>422028</b> right hand cutting	280	630	1
4515090	<b>422126</b> left hand cutting	260	520	1
4515170	<b>422128</b> left hand cutting	280	630	1

### 423

#### PELICAN PATTERN SNIPS

- ▶ Right hand cutting
- ▶ For long straight continuous and figure cuts
- ▶ Ground cutting edges



Code	No.	↳mm↳	↕	📦
4515250	<b>423030</b>	300	730	1
4515330	<b>423035</b>	350	730	1

### 8531

#### TIN SNIPS English pattern

- ▶ Left hand cutting
- ▶ With special, strong cutting edges
- ▶ Ground cutting edges, handles blue epoxy coated



Code	No.	↳mm↳	↕	📦
6757840	<b>8531 8</b>	200	260	1
6757920	<b>8531 10</b>	250	470	1
6758060	<b>8531 12</b>	300	650	1

### 424

#### IDEAL PATTERN SNIPS

- ▶ For straight continuous and figure cuts
- ▶ With lever action
- ▶ Self-opening with installed spring, with lock
- ▶ Ground cutting edges



Code	No.	↳mm↳	↕	📦
4515410	<b>424026</b> right hand cutting	260	530	1
4515680	<b>424126</b> left hand cutting	260	520	1









**8524 SS**

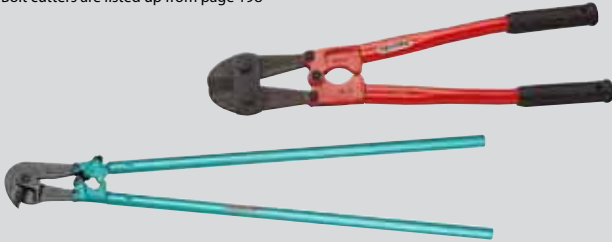
**HEAVY-DUTY IDEAL PATTERN SNIPS**

- ✔ For straight continuous and figure cuts
- ✔ With lever action
- ✔ Right hand cutting
- ✔ Self-opening with installed spring, with lock
- ✔ Wear-resistant, extra hard
- ✔ Ground cutting edges
- ✔ Sheet thickness max. 1 mm (at 400 N/mm<sup>2</sup>)



Code	No.	(=mm=)		
6756520	<b>8524 SS</b>	260	520	1

✔ Bolt cutters are listed up from page 198





**425**

**FIGURE SNIPS**

- ✔ For straight continuous and figure cuts
- ✔ With lever action
- ✔ Self-opening with installed spring, with lock
- ✔ Ground cutting edges





Code	No.	(=mm=)		
4515760	<b>425026</b>	260	480	1
	right hand cutting			
4515840	<b>425126</b>	260	480	1
	left hand cutting			

**8526 SS**

**HEAVY-DUTY FIGURE SNIPS**

- ✔ For straight continuous and figure cuts
- ✔ With lever action
- ✔ Right hand cutting
- ✔ Self-opening with installed spring, with lock
- ✔ Wear-resistant, extra hard
- ✔ Ground cutting edges
- ✔ Sheet thickness max. 1 mm (at 400 N/mm<sup>2</sup>)





Code	No.	(=mm=)		
6756950	<b>8526 SS</b>	260	480	1

**E 424**

**REPAIR SET**

- ✔ For no. 424, 425 8524 SS and 8526 SS
- ✔ Repair set comprising: locking unit complete, spare spring and screw



Code	No.		
1464728	<b>424027</b>	10	1

**426**

**NIBBLER**

- ✔ For cutting sheet metal up to 1.2 mm and plastics up to 2.0 mm
- ✔ With replaceable cutting jaws



Code	No.	(=mm=)		
4515920	<b>426026</b>	265	480	1
	Nibbler			
4612020	<b>426027</b>		15	1
	Spare knife			
4612100	<b>426028</b>		40	1
	Spare jaw			
4612290	<b>426029</b>		5	1
	Spare spring			
4612370	<b>426030</b>		5	1
	Spare nuts set			

✔ Our extensive range of scrapers is listed up from page 400



✔ Our extensive range of chisels, drift and pin punches is listed up from page 401



Deviant packing units see article description.





## ARC PUNCHES

### 5700

#### ARC PUNCH

- To DIN 7200 Form A
- For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- Cutting edge hardened



Code	No.	Ø mm	Ø inch	mm	mm
4542300	<b>570002</b>	2	1/16	45	5
4542490	<b>570003</b>	3	1/8	45	5
4542570	<b>570004</b>	4	5/32	50	5
4542650	<b>570005</b>	5	3/16	70	5
4542730	<b>570006</b>	6	1/4	70	5
4542810	<b>570007</b>	7		90	5
4543030	<b>570008</b>	8	5/16	90	5
4543110	<b>570009</b>	9	11/32	90	5
4543380	<b>570010</b>	10	3/8	125	5
4543460	<b>570011</b>	11	7/16	130	5
4543540	<b>570012</b>	12	15/32	130	5
4543620	<b>570013</b>	13	1/2	165	5
4626590	<b>570014</b>	14	9/16	170	5
4543890	<b>570015</b>	15	19/32	180	5
4543970	<b>570016</b>	16	5/8	180	5
4544000	<b>570017</b>	17	21/32	230	5
4544190	<b>570018</b>	18	11/16	230	5
4544270	<b>570019</b>	19	3/4	240	5
4544350	<b>570020</b>	20	25/32	315	5
4546560	<b>570021</b>	21	13/16	315	1
4545670	<b>570022</b>	22	7/8	320	1
4545750	<b>570023</b>	23	29/32	375	1
4540440	<b>570024</b>	24	15/16	375	1
4618300	<b>570025</b>	25	1	400	1
4618490	<b>570026</b>	26	1.1/32	375	1
4618570	<b>570027</b>	27	1.1/16	475	1
4618650	<b>570028</b>	28	1.3/32	500	1
4618730	<b>570029</b>	29	1.1/8	450	1
4618810	<b>570030</b>	30	1.3/16	590	1
4619030	<b>570031</b>	31		580	1
4619110	<b>570032</b>	32	1.1/4	580	1
4619380	<b>570033</b>	33		660	1
4619460	<b>570034</b>	34	1.5/16	675	1
4619540	<b>570035</b>	35	1.3/8	690	1
4619620	<b>570036</b>	36		700	1
4619700	<b>570037</b>	37	1.7/16	700	1
4619890	<b>570038</b>	38	1.1/2	770	1
4619970	<b>570039</b>	39		770	1
4620040	<b>570040</b>	40	1.9/16	860	1
4620120	<b>570041</b>	41	1.5/8	860	1
4620200	<b>570042</b>	42		970	1
4620390	<b>570043</b>	43	1.11/16	980	1
4620470	<b>570044</b>	44		980	1
4620550	<b>570045</b>	45	1.3/4	1020	1
4620630	<b>570046</b>	46	1.13/16	1110	1
4620710	<b>570047</b>	47	1.7/8	1180	1
4620980	<b>570048</b>	48		1180	1

Code	No.	Ø mm	Ø inch	mm	mm
4621010	<b>570049</b>	49	1.15/16	1190	1
4621280	<b>570050</b>	50		1200	1
4621360	<b>570055</b>	55		1850	1
4621440	<b>570056</b>	56	2.3/16	1850	1
4621520	<b>570058</b>	58	2.1/4	2000	1
4621600	<b>570059</b>	59	2.5/16	2000	1
4621790	<b>570060</b>	60		2000	1
4621870	<b>570064</b>	64	2.1/2	2250	1
4621950	<b>570065</b>	65		2250	1
4622090	<b>570070</b>	70	2.3/4	4000	1
4622170	<b>570075</b>	75		4400	1
4622250	<b>570080</b>	80	3.1/4	4400	1
4622330	<b>570090</b>	90		5300	1
4622410	<b>570100</b>	100	4	8700	1

### 5703

#### SET OF ARC PUNCHES

- In plastic wallet no. 570390



Code	No.	mm	mm
1549472	<b>570300</b>	7 pieces, consisting of 1 piece each Arc punch 3, 5, 7, 8, 10, 11 and 13 mm	830 1
1549480	<b>570301</b>	8 pieces, consisting of 1 piece each Arc punch 3, 5, 7, 8, 10, 13, 16 and 19 mm	1120 1
1549499	<b>570302</b>	9 pieces, consisting of 1 piece each Arc punch 3, 5, 7, 8, 10, 13, 16, 19 and 20 mm	1450 1
1549502	<b>570303</b>	10 pieces, consisting of 1 piece each Arc punch 3, 5, 7, 8, 10, 13, 16, 19, 22 and 25 mm	1850 1
1549510	<b>570304</b>	8 pieces, consisting of 1 piece each Arc punch 3, 6, 8, 10, 12, 16, 20 and 25 mm	1470 1
1549758	<b>570390</b>	Plastic wallet, empty	110 1

## PIPE CLEANING TOOLS

### 840

#### FLEXIBLE PIPE CLEANING SHAFT

- For sink lines, drains, narrow pipes, etc.
- Hot-dip galvanised spring-steel wire
- Wound in 2 layers
- With adjustable handle
- 2-blade claw



Code	No.	Ø mm	Length m	for pipe Ø	mm	mm
4647910	<b>840703</b>	7	3.0	20-40	1.0	1
4657980	<b>840705</b>	7	5.0	20-40	1.3	1
4658010	<b>840805</b>	8	5.0	30-50	1.7	1
4648050	<b>840807</b>	8	7.5	30-50	2.5	1



**841**

**FLEXIBLE PIPE CLEANING SHAFT**

- For normal drain pipes
- Hot-dip galvanised spring-steel wire
- Wound in 2 layers
- With replaceable crank
- 3-blade claw
- May also be used with extension shafts no. 842



Code	No.	Ø mm	Length m	for pipe Ø	⚙️	📦
4648130	<b>841005</b>	10	5	50-70	3.1	1
4652160	<b>841010</b>	10	10	50-70	5.4	1
4658280	<b>841205</b>	12	5	60-100	4.5	1
4652240	<b>841210</b>	12	10	60-100	8.1	1
4648210	<b>841510</b>	15	10	100-200	11.0	1

**842**

**EXTENSION SHAFT**

- With coupling
- For pipe cleaning shafts no. 841



Code	No.	Ø mm	Length m	for pipe Ø	⚙️	📦
4648480	<b>842005</b>	10	5	50-70	2.8	1
4652320	<b>842205</b>	12	5	60-100	4.2	1
4648560	<b>842505</b>	15	5	100-200	5.5	1

**860**

**HAND-TURNED PLUMBER'S SNAKE**

- For drain pipes up to 50 mm Ø
- In rust-resistant sheet steel drum, with hand crank and quick-action chuck
- With Flexikern®-shaft drain sieve head



Code	No.	Ø mm	Length m	for pipe Ø up to	⚙️	📦
1467166	<b>860100</b>	7	7.5	50	3.2	1

**E 860**

**PARTS**



Code	No.	⚙️	📦
1467174	<b>860900</b>	Flexikern®-shaft 7 mm x 7,5 m with drain sieve head	1800 1
1467182	<b>860902</b>	Spare drain sieve head	40 1

**861**

**HAND-TURNED PLUMBER'S SNAKE**

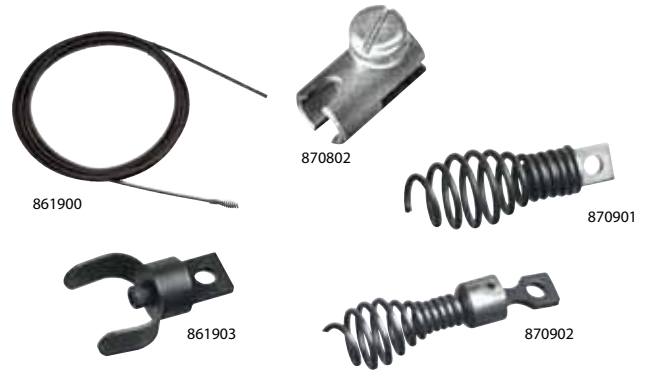
- For drain pipes up to 75 mm Ø
- In rust-resistant sheet steel drum, with hand crank and quick-action chuck
- With Flexikern®-shaft including interchangeable drill head



Code	No.	Ø mm	Length m	for pipe Ø up to	⚙️	📦
1467190	<b>861000</b>	10	7.5	75	4.3	1

**E 861**

**PARTS**



Code	No.	⚙️	📦
1467204	<b>861900</b>	Flexikern®-shaft 10 mm x 7,5 m with coupling	2860 1
1467239	<b>870802</b>	Coupling for shafts 10 mm	20 1
1467247	<b>870901</b>	Drilling head 30 mm	50 1
1467255	<b>870902</b>	Swivel drilling head 25 mm	40 1
1467263	<b>870903</b>	Fork drilling head 40 mm	50 1

**870**

**DRAIN PIPE CLEANER**

- For drain pipes up to 50 or 75 mm Ø
- Compact design with 5 different cleaning heads
- Shafts 8 and 10 mm interchangeable without disassembling
- Optional available with plastic case



Code	No.	Ø mm	Length m	for pipe Ø	⚙️	📦
1467271	<b>870080</b>	8	7.5	40-50	11.9	1
1467298	<b>870100</b>	10	10.5	50-75	13.6	1

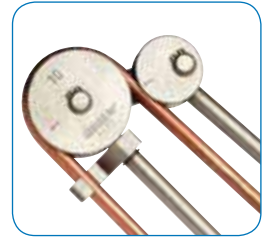
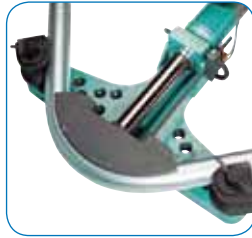
**E 870**

**PARTS**



Code	No.	Description	⚙️	📦
1467301	<b>870608</b>	Flexikern®-shaft 8 mm x 7,5 m with coupling	2000	1
1467328	<b>870611</b>	Flexikern®-shaft 10 mm x 10,5 m with coupling	3800	1
1467336	<b>870801</b>	Coupling for shafts 8 mm	22	1
1467239	<b>870802</b>	Coupling for shafts 10 mm	20	1
1467247	<b>870901</b>	Drilling head 30 mm	50	1
1467255	<b>870902</b>	Swivel drilling head 25 mm	40	1
1467263	<b>870903</b>	Fork drilling head 40 mm	50	1
1467344	<b>870904</b>	Spring milling head 16 mm	50	1
1467352	<b>870905</b>	Cutting knife 30 mm	40	1
1601849	<b>870906</b>	Milling tip 25 mm	40	1
1467816	<b>870090</b>	Plastic case	3100	1

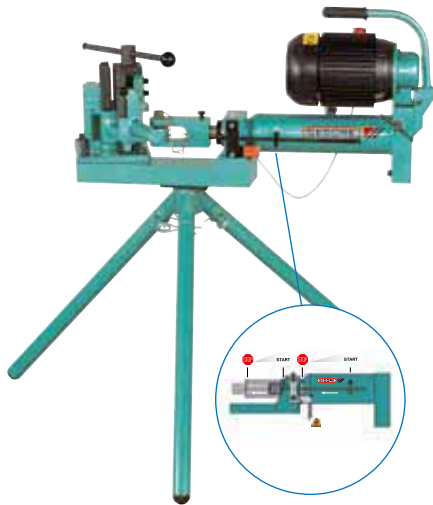




## GEDORE PIPE BENDING SYSTEMS Advantages and benefits

### FEATURES THAT MAKE THE DIFFERENCE...

- ✔ Durable quality for heavy professional use
- ✔ Gentle handling of workpieces
- ✔ Suitable for solving problems, a variety of materials and applications
- ✔ From simple bending pliers to a electro-hydraulic bending machine for 4" pipes
- ✔ Hand-operated, hydraulic and electro-hydraulic
- ✔ For the complete range of standard pipe grades
- ✔ Solving problems is our strength - Please ask us!



Electrical limiter

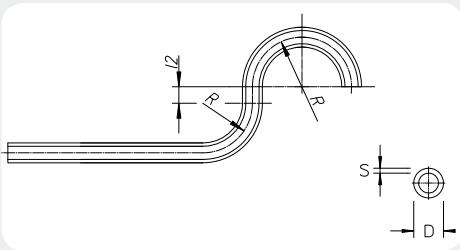


## USEFUL INFORMATION

### HOW DO I FIND THE RIGHT BENDING TOOL?

**You need to consider the following points when choosing your bending machine:**

- ✔ Do you want to bend by hand?
- ✔ Do you want to use a vice?
- ✔ Is the machine to be hydraulically operated?
- ✔ Is the machine to be electrically operated, and if so at what voltage?



**The following points also need to be taken into account; refer to adjacent sketch:**

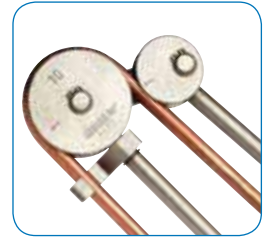
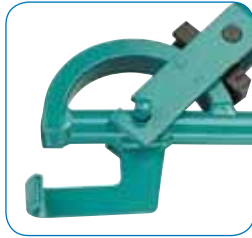
- ✔ The shape of the pipe to be bent (round-section, square-section, etc.)
- ✔ The outside diameter "D" of the pipe
- ✔ The wall thickness "S" of the pipe
- ✔ The pipe grade (e.g. steel, stainless steel, NF metals, etc.)
- ✔ The required bending angle (e.g. 90°, 180° ... etc.)
- ✔ Are bending radii "R" specified? (Example: 3 x D = R - this corresponds to a 25 mm outside diameter pipe with a bending radius of 75 mm)
- ✔ Important: the radius is measured to the middle of the tube = neutral area
- ✔ Details of the length "L" of the overall pipe
- ✔ Are a number of bends to be made in succession? - If so, it is essential to state the distance between the pipe bends, "L2"
- ✔ Are there any specifications for the pipe or the finished pipe bends which go beyond the details listed here (e.g. in power-station construction, the food industry or similar)?
- ✔ A more detailed overview of the possible uses of our pipe bending machines and tools is given in the next pages.



### We are the specialists!

We will be happy to receive your enquiries at the address below or by e-mail, fax or telephone:

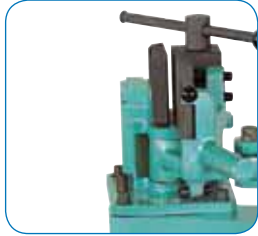
**DAKO Werk Dowidat KG** · Handelsweg 5-11 · 42897 Remscheid · Germany  
Tel. +49 (0) 2191 - 69 70 · Fax +49 (0) 2191 - 66 15 40 · dako@gedore.de



## APPLICATIONS OF THE GEDORE PIPE BENDER

Size	Outer diameter	Wall thickness	No. 240 2405	No. 241	No. 2415	No. 2420 2423 2424 2425	No. 243	No. 244	No. 2454 2455 2456	No. 246	No. 249	No. 250	No. 255 256	No. 257 258	No. 259 260	No. 261	No. 276	No. 278	No. 285
<b>Gas and water pipes DIN 2440</b>																			
1/8"	10,2 mm	2,00 mm																	180°
1/4"	13,5 mm	2,35 mm																	180°
3/8"	17,2 mm	2,35 mm								180°			90°	90°	90°	90°			180°
1/2"	21,3 mm	2,65 mm								180°			90°	90°	90°	90°			180°
3/4"	26,9 mm	2,65 mm								180°			90°	180°*	90°	90°			180°
1"	33,7 mm	3,25 mm											90°	180°*	90°	90°			
1.1/4"	42,4 mm	3,25 mm											90°	180°*	90°	90°			
1.1/2"	48,3 mm	3,25 mm												180°*	90°	90°			
2"	60,3 mm	3,65 mm												90°	90°	90°			
2.1/2"	76,1 mm	3,65 mm													90°	90°			
3"	88,9 mm	4,05 mm													90°	90°			
4"	114,3 mm	4,50 mm														90°			
<b>Gas and water pipes DIN 2441</b>																			
1/8"	10,2 mm	2,65 mm																	180°
1/4"	13,5 mm	2,90 mm																	180°
3/8"	17,2 mm	2,90 mm											90°	90°	90°	90°			180°
1/2"	21,3 mm	3,25 mm											90°	90°	90°	90°			180°
3/4"	26,9 mm	3,25 mm											90°	180°*	90°	90°			180°
1"	33,7 mm	4,05 mm											90°	180°*	90°	90°			
1.1/4"	42,4 mm	4,05 mm											90°	180°*	90°	90°			
1.1/2"	48,3 mm	4,05 mm												180°*	90°	90°			
2"	60,3 mm	4,50 mm												90°	90°	90°			
2.1/2"	76,1 mm	4,50 mm													90°	90°			
3"	88,9 mm	4,85 mm													90°	90°			
4"	114,3 mm	5,40 mm														90°			
<b>Pipes for steam systems DIN 2448</b>																			
3/8"	17,2 mm	1,80 mm											90°	90°	90°	90°			180°
1/2"	21,3 mm	2,00 mm											90°	90°	90°	90°			180°
	25,0 mm	2,00 mm											90°	90°	90°	90°			180°
3/4"	26,9 mm	2,30 mm											90°	90°	90°	90°			180°
	30,0 mm	2,60 mm											90°	90°	90°	90°			180°
	31,8 mm	2,60 mm											90°	90°	90°	90°			
1"	33,7 mm	2,60 mm											90°	90°	90°	90°			
	38,0 mm	2,60 mm												90°	90°	90°			
1.1/4"	42,4 mm	2,60 mm												90°	90°	90°			
	44,5 mm	2,60 mm												90°	90°	90°			
1.1/2"	48,3 mm	2,60 mm												90°	90°	90°			
	51,0 mm	2,60 mm												90°	90°	90°			
	57,0 mm	2,90 mm													90°	90°			
2"	60,3 mm	2,90 mm													90°	90°			
	63,5 mm	2,90 mm													90°	90°			
	70,0 mm	2,90 mm													90°	90°			
2.1/2"	76,1 mm	2,90 mm													90°	90°			





## APPLICATIONS OF THE GEDORE PIPE BENDER

Size	Outer diameter	Wall thickness	No. 240 2405	No. 241	No. 2415	No. 2420 2423 2424 2425	No. 243	No. 244	No. 2454 2455 2456	No. 246	No. 249	No. 250	No. 255 256	No. 257 258	No. 259 260	No. 261	No. 276	No. 278	No. 285
<b>Electrical installation ducts DIN EN 60423</b>																			
M 12	12,0 mm	1,00 mm									90°	90°	90°	90°	90°	90°	180°		
M 16	16,0 mm	1,00 mm									90°	90°	90°	90°	90°	90°	180°		
M 20	20,0 mm	1,00 mm									90°	90°	90°	90°	90°	90°	180°		
M 25	25,0 mm	1,20 mm									90°	90°		90°	90°	90°	180°		
M 32	32,0 mm	1,20 mm									90°	90°		90°	90°	90°	180°		
M 40	40,0 mm	1,20 mm									90°	90°		90°	90°	90°			
M 50	50,0 mm	1,20 mm									90°	90°			90°	90°			
<b>Banister-rail tubes</b>																			
3/8"	17,2 mm	1,75 mm									90°	90°	90°	90°	90°	90°	180°		
1/2"	21,3 mm	1,75 mm									90°	90°	90°	90°	90°	90°	180°		
3/4"	26,9 mm	2,00 mm									90°	90°	90°	90°	90°	90°	180°		
1"	33,7 mm	2,00 mm									90°	90°		90°	90°	90°			
1.1/4"	42,4 mm	2,00 mm									90°	90°		90°	90°	90°			
1.1/2"	48,3 mm	2,00 mm									90°	90°			90°	90°			
2"	60,3 mm	2,00 mm										90°			90°	90°			
<b>Multi-layer composite pipes</b>																			
	14,0 mm	2,00 mm	180°			90°			90°	180°					90°*	90°*	90°	180°	
	16,0 mm	2,00 mm	180°			90°			90°	180°	90°				90°*	90°*	90°	180°	
	17,0 mm	2,00 mm								180°									
	18,0 mm	2,00 mm	180°			90°			90°	180°	90°				90°*	90°*	90°	180°	
	20,0 mm	2,00 mm	180°			90°			90°	180°	90°	90°			90°*	90°*	90°	180°	
	26,0 mm	3,00 mm							90°	180°								180°	
	32,0 mm	3,00 mm							90°		90°	90°			180°*	90°*	90°	180°	
	40,0 mm	3,50 mm									90°	90°			180°*	90°*	90°		
	50,0 mm	4,00 mm									90°	90°			180°*	90°*	90°		
	63,0 mm	4,50 mm														90°*	90°		
Copper pipes DIN EN 1057 half-hard in mm			12-22*	4,75-12		10-22*	6-16*	10-22		6-28*	12-35	20-28					6-22		6-18*
Copper pipes DIN EN 1057 soft in mm			12-22	4,75-12	4,75-10	10-22*	6-16*	10-22	5-22	6-28*	12-35	20-28					6-22		6-18*
Sheathed copper pipes in mm			12-18*			12-18*	6-12*	6-22*	6-22*		12-22*						6-22*		
Thin-walled NF pipes in mm			12-22	4,75-12	4,75-10	10-22*	6-16*	10-30		12-28*	12-42	20-60,3					10-32		
Hydraulic pipes DIN 2391 in mm			12-15	4,75-12		10-18*	6-12*	10-22	5-18*	12-22*	12-42	20-60,3	14-32*	14-50*	14-76,1*	14-76,1*	6-28*	3-25*	6-18*
Precision steel pipes DIN 2394 in mm			12-15	4,75-12		10-18*	6-12*	10-22	5-18*	12-22*	12-54	20-54	14-32*	14-50*	14-76,1*	14-76,1*	6-28*	3-25*	6-18*
Stainless steel pipes DIN 17 440 in mm						10-18*			5-18*	12-22*	12-42*	20-60,3	14-32*	14-40*	14-60,3*	14-60,3*	6-28*	3-25*	

\*) depending on size / finish / pipe properties - see catalogue

