

## Standard tools

### Accessories



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...because quality matters

# 2K Screwdrivers

Screwdriver range with 2-component handle made from polypropylene and thermoplastic elastomer.

The material gives enhanced grip and prevents slippage while working.

The appearance of the screwdrivers has been upgraded with a coordinated green-black colour combination.



## 2-component Electricians' screwdrivers



with two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, chrome plated with black point.

Art. No.	lob	CW	length	weight	PU
10 16 04	75	2,5	160	35	12
10 16 06	100	4	195	40	12
10 16 08	125	4	220	60	12
10 16 10	150	5	245	75	12
10 16 12	175	5	270	80	12
10 16 14	200	5	295	85	12



## 2-component Electricians' screwdrivers



with new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 15 20	75	2,5	160	35	12
10 15 21	100	3	195	40	12
10 15 22	100	4	195	40	12
10 15 24	125	4	220	60	12
10 15 26	150	5	245	75	12
10 15 28	175	5	270	80	12
10 15 30	200	5	295	90	12



## 2-component Engineers' screwdrivers



with new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, sanded blade, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 16 40	75	5	170	65	12
10 16 42	100	6	205	105	12
10 16 44	125	7	230	125	12
10 16 46	150	8	270	145	12
10 16 48	175	9	295	175	12
10 16 50	200	10	320	185	12



## 2-component Engineers' screwdrivers



with new two-component PP/TPE haft, blade made from chromium-vanadium steel, embossed blade, polished blade surface and -side, hardened, blast-finished, blade PCV covered

Art. No.	lob	CW	length	weight	PU
10 15 32	75	5	170	65	12
10 15 34	100	6	205	105	12
10 15 36	125	7	230	125	12
10 15 38	150	8	270	145	12
10 15 40	175	9	295	175	12
10 15 41	200	10	320	185	12

## 2-component Screwdriver set



6-part design with a new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade coated with flexible black material. Content: 2 electrician's screwdrivers, 2 engineers' screwdrivers, 2 Phillips screwdrivers

Art. No.	set	weight	PU
10 15 60	6-pieces	550	1



## 2-component Cross slotted screwdrivers Phillips



with two-component PP/TPE haft, Phillips, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, chrome plated with black point



Art. No.	size	M	lob	length	weight	PU
10 16 84	0	1,6 - 2	60	145	30	12
10 16 86	1	2 - 3	80	175	55	12
10 16 88	2	3,5 - 5	100	205	80	12
10 16 90	3	5,5 - 7	150	270	140	12

## 2-component Cross slotted screwdrivers Phillips



with new two-component PP/TPE haft, Phillips, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade PCV covered



Art. No.	size	M - M	lob	length	weight	PU
10 15 42	0	1,6 - 2	60	145	30	12
10 15 44	1	2 - 3	80	175	60	12
10 15 46	2	3,5 - 5	100	205	75	12
10 15 48	3	6	150	270	150	12

## 2-component Cross slotted screwdrivers Pozidriv



with two-component PP/TPE haft, Pozidriv, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, chrome plated with black point



Art. No.	size	lob	M - M	length	weight	PU
10 26 12	1	80	2 - 3	175	60	12
10 26 14	2	100	3,5 - 5	205	75	12
10 26 16	3	150	6	270	150	12

## 2-component Cross slotted screwdrivers Pozidriv



with new two-component PP/TPE haft, Pozidriv, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade PCV covered



Art. No.	size	lob	M - M	length	weight	PU
10 15 50	1	80	2 - 3	175	60	12
10 15 52	2	100	3,5 - 5	205	75	12
10 15 54	3	150	6	270	150	12

## 2-component screwdriver set



6-part design with a new two-component PP/TPE haft, blade made from either molybdenum-vanadium or chromium-vanadium steel, hardened, blast-finished, blade coated with flexible black material.

Content:

- 2 electric. screwdrivers
- 2 engineers screwdrivers
- 2 **Pozidriv** screwdrivers



Art. No.	set	weight	PU
10 15 62	6-pieces	550	1

## 2-component screwdrivers Tx



with two-component PP/TPE haft, blade made from chromium-vanadium steel, chrome plated with black point, uninsulated blades



Art. No.	size	M - M	lob	length	weight	PU
10 12 29/6	TX 6	2	100	185	30	12
10 12 30	TX 8	2,5	100	185	30	12
10 12 31	TX 9	3	100	185	30	12
10 12 32	TX 10	3 - 3,5	100	195	35	12
10 12 33	TX 15	3,5 - 4	100	195	35	12
10 12 34	TX 20	4 - 5	100	195	63	12
10 12 35	TX 25	4,5 - 5	125	220	65	12
10 12 36	TX 27	4,5 - 6	125	230	75	12
10 12 37	TX 30	6 - 7	150	255	100	12
10 12 38	TX 40	7 - 8	175	295	125	12
10 12 29	TX 55	12	200	320	150	12

## 2-component screwdrivers Tx with security pin



with two-component PP/TPE haft, blade made from chromium-vanadium steel, chrome plated with black point, uninsulated blades



Art. No.	size	M - M	Ø	lob	length	weight	PU
10 12 00	TX 9	2,5	3,0	100	185	30	12
10 12 02	TX 10	3	3,0	100	195	35	12
10 12 04	TX 15	3 - 3,5	3,5	100	195	35	12
10 12 06	TX 20	3,5 - 4	4,0	100	195	63	12
10 12 08	TX 25	4 - 5	4,5	125	220	65	12
10 12 10	TX 27	4,5 - 5	5,0	125	230	75	12
10 12 11	TX 30	6-7	5,0	150	255	160	12

## 2-component screwdriver set Tx



5 pieces

Contents: 1 screwdriver each TX 10, TX 15, TX 20, TX 25, TX 30

Art. No. 101212/S: Screwdriver assortment Tx with security pin



Art. No.	set	weight	PU
10 12 12	for Tx	5-pieces	385
10 12 12/S	for Tx with security pin	5-pieces	385

## Electricians' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	lob	CW	length	weight	PU
10 07 50	75	3	155	35	12
10 07 52	100	4	180	40	12
10 07 54	125	4	215	60	12
10 07 56	150	5	240	75	12
10 07 58	175	5	265	80	12
10 07 60	200	5	290	85	12

## Electricians' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade PCV-covered



Art. No.	lob	CW	length	weight	PU
10 07 64	75	3	155	35	12
10 07 66	100	4	180	40	12
10 07 68	125	4	215	60	12
10 07 70	150	5	240	75	12
10 07 72	175	5	265	80	12
10 07 74	200	5	290	90	12

## Engineers' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	lob	CW	length	weight	PU
10 07 78	75	5	165	65	12
10 07 80	100	6	200	105	12
10 07 82	125	7	225	125	12
10 07 84	150	8	260	145	12
10 07 86	175	9	285	175	12
10 07 88	200	10	310	185	12

## Engineers' screwdrivers Black Line



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade PCV-covered



Art. No.	lob	CW	length	weight	PU
10 07 90	75	5	165	65	12
10 07 91	100	6	200	105	12
10 07 92	125	7	225	125	12
10 07 94	150	8	260	150	12
10 07 96	175	9	285	180	12
10 07 98	200	10	310	190	12

## Cross slotted screwdrivers Phillips



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, blade uninsulated



Art. No.	size	lob	length	weight	PU
10 08 74	0	60	140	30	12
10 08 76	1	80	160	55	12
10 08 78	2	100	190	80	12
10 07 45	3	150	250	150	12

## Cross slotted screwdrivers Phillips



of chrome vanadium steel, with large green PPN-handle, polished, gun metal finish, PCV covered



Art. No.	size	lob	length	weight	PU
10 08 82	0	60	140	30	12
10 08 84	1	80	160	55	12
10 08 86	2	100	190	80	12
10 07 46	3	150	250	150	12

## Cross slotted screwdrivers Pozidriv



of chrome vanadium steel, with large black PPN-handle, polished, gun metal finish, PCV covered



Art. No.	size	lob	length	weight	PU
10 08 90	1	80	160	60	12
10 08 92	2	100	190	75	12
10 07 47	3	150	250	150	12

## Screwdriver sets Black Line



7 pieces

Black Line Electricians' screwdriver 75 mm, Black Line Electricians' screwdriver 100 mm, Black Line Electricians' screwdriver 125 mm, Black Line Electricians' screwdriver 150 mm, Black Line Engineers' screwdriver 100 mm, Black Line Engineers' screwdriver 150 mm, Black Line cross-slotted screwdriver size 2



Art. No.	set	weight	PU
10 07 40	7-pieces	530	1



## Black Line stubby screwdrivers



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	lob	CW	length	weight	PU
10 31 20	30	6	80	40	12
10 31 22	40	8	90	40	12

## Black Line stubby screwdrivers Phillips



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	lob	length	weight	PU
10 30 80	1	2,2 - 3,2	30	80	35	12
10 30 82	2	3,2 - 5,2	40	90	45	12

## Black Line screwdrivers Tx



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	lob	length	weight	PU
10 32 29/6	TX 6	2	60	130	30	12
10 32 30	TX 8	2,5	70	140	30	12
10 32 31	TX 9	3	70	140	30	12
10 32 32	TX 10	3 - 3,5	80	160	35	12
10 32 33	TX 15	3,5 - 4	80	160	35	12
10 32 34	TX 20	4 - 5	100	190	63	12
10 32 35	TX 25	4,5 - 5	100	190	65	12
10 32 36	TX 27	4,5 - 6	110	200	75	12
10 32 37	TX 30	6 - 7	110	210	100	12
10 32 38	TX 40	7 - 8	120	220	125	12
10 32 29	TX 55	12	130	250	150	12

## Black Line screwdrivers Tx with security pin



chrome vanadium steel, chrome-plated, with large plastic handle, uninsulated blades, with black point



Art. No.	size	M - M	Ø	lob	weight	PU
10 32 00	TX 9	2,5	3,0	70	30	12
10 32 02	TX 10	3	3,0	80	35	12
10 32 04	TX 15	3 - 3,5	3,5	80	35	12
10 32 06	TX 20	3,5 - 4	4,0	100	63	12
10 32 08	TX 25	4 - 5	4,5	100	65	12
10 32 10	TX 27	4,5 - 5	5,0	110	75	12

## Black Line screwdriver assortment Tx



5 pieces

Contents: 1 screwdriver each TX 10, TX 15, TX 20, TX 25, TX 30

Art. No. 10 30 76/S: Screwdriver assortment Tx with security pin



Art. No.	set	weight	PU
10 30 76	for Tx 5-pieces	385	1
10 30 76/S	for Tx with security pin 5-pieces	385	1

## Black Line piercing awls

chrome vanadium steel, with shock-proof plastic handle, round point



Art. No.	Ø	length	weight	PU
10 34 70	6	100	75	12

## Black Line piercing awls

chrome vanadium steel, with shock-proof plastic handle, square point



Art. No.	Ø	length	weight	PU
10 34 72	6	100	75	12

## Black Line screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, PCV covered, with black point, 7 pieces

Contents:

each 1 Electricians' screwdrivers 3 x 75, 4 x 100, 4 x 125 mm, 5 x 150 mm, 5 x 175 mm and 5 x 200 mm, 1 cross slotted screwdriver Phillips size 1



Art. No.	set	weight	PU
10 34 02	7-pieces	530	1

## Black Line Screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, PCV covered, with black point, 6 pieces

Contents: each 1 Electricians' screwdrivers 3 x 75 mm, 4 x 100 mm, 5 x 150 mm, 1 screwdriver 6 x 100 mm, 1 cross slotted screwdriver Phillips size 1, 1 voltage tester



Art. No.	set	weight	PU
10 34 05	6-pieces	500	1

## Black Line Screwdriver set



chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces

Contents: each 1 Electricians' screwdrivers 4 x 100 mm, 4 x 125 mm, 5 x 150 mm, 5 x 175 mm, 5 x 200 mm, each 1 voltage tester 3 x 50 mm, 3,5 x 100 mm



Art. No.	set	weight	PU
10 34 00	7-pieces	550	1

## Black Line Socket wrenches



chrome vanadium steel, chrome-plated, for hexagon nuts, with large plastic handle



Art. No.	size	M	lob	length	weight	PU
10 34 84	5	2,6	125	215	85	6
10 34 86	5,5	3,5	125	215	85	6
10 34 88	6	3,5	125	215	90	6
10 34 90	7	4,5	125	220	110	6
10 34 92	8	5,5	125	220	130	6
10 34 94	9	-	125	220	135	6
10 34 96	10	6,5	125	220	140	6
10 35 00	12	-	125	220	150	6
10 35 02	13	8,5	125	220	175	6
10 35 06	17	10,5	125	220	200	6

## Black Line Socket wrenches set



chrome vanadium steel, chrome-plated, for hexagon nuts, with large plastic handle, 7-pieces

Contents: size 5 - 5,5 - 7 - 8 - 10 - 11 - 13



Art. No.	set	weight	PU
10 35 10	7-pieces	890	1

## 2-component Socket wrenches



chrome vanadium steel, chrome-plated, for hexagon nuts, with 2 components-handle of PP/TPE



Art. No.	size	M	lob	length	weight	PU
10 14 84	5	2,6	125	220	85	6
10 14 86	5,5	3,5	125	220	85	6
10 14 88	6	3,5	125	220	90	6
10 14 90	7	4,5	125	230	110	6
10 14 92	8	5,5	125	230	130	6
10 14 94	9	-	125	230	135	6
10 14 96	10	6,5	125	230	140	6
10 15 00	12	-	125	245	150	6
10 15 02	13	8,5	125	245	175	6
10 15 06	17	10,5	125	245	200	6

## 2-component Socket wrenches set



chrome vanadium steel, chrome-plated, for hexagon nuts, with 2 components-handle of PP/TPE, 7 pieces

Contents:

1 piece each 5 - 5,5 - 7 - 8 - 10 - 11 - 13 mm



Art. No.	set	weight	PU
10 15 10	7-pieces	890	1

## Screwdrivers for electronics



chrome vanadium steel, chrome-plated, with large green plastic handle, uninsulated blades, with black point



Art. No.	lob	CW	Cth	Ø	length	weight	PU
10 02 41	60	2,5	0,4	2,5	145	11	12
10 02 42	75	2,5	0,4	2,5	158	11	12
10 02 43	100	3,5	0,5	3,5	185	13	12
10 02 44	150	3,5	0,5	3,5	230	17	12
10 02 45	100	4,5	0,6	4,5	185	21	12
10 02 46	150	4,5	0,5	4,5	230	24	12

## Precision screwdrivers for slotted screws



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	lob	CW	Cth	length	weight	PU
10 07 04	60	0,8	0,2	145	15	12
10 07 04A	60	1,2	0,2	145	15	12
10 07 10	60	3,0	0,5	145	17	12

## Precision screwdrivers for cross slotted screws



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	M	lob	length	weight	PU
10 07 15	00	2	60	145	15	12
10 07 16	0	2	60	145	18	12

## Precision screwdrivers Tx



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	M	lob	length	weight	PU
10 07 18A	TX 06	-	60	145	17	12
10 07 20	TX 07	1,6/2	60	145	17	12
10 07 21	TX 08	2,5	60	145	17	12
10 07 22	TX 09	3	60	145	17	12

## Precision screwdrivers Tx with security pin



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	size	lob	length	weight	PU
10 07 12	TX 09	60	145	17	12
10 07 13	TX 10	60	145	18	12

## Precision screwdrivers for electronic ballpoint



for electronic and fine-mechanic, chrome vanadium steel, hard and high-elastic, chrome-plated, with green plastic handle, with black point



Art. No.	mm	lob	length	weight	PU
10 07 18	2,0	60	145	15	12

## Electronic screwdriver sets



chrome vanadium steel, chrome-plated, with large plastic handle, with black point, 7 pieces  
Electricians' screwdriver 5 x 60 mm, 1,5 x 80 mm, 2,5 x 60 mm, 2,5 x 75 mm, 3,5 x 100 mm, 3,5 x 150 mm, 4,5 x 150 mm



Art. No.	set	weight	PU
10 02 47	7-pieces	250	1

## Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, two-piece balde



Art. No.	lob	CW	length	weight	PU
10 02 84	145	5	235	25	12
10 02 86	200	5	285	30	12
10 02 88	300	5	390	60	12

## Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, two-piece balde, retaining device



Art. No.	lob	CW	length	weight	PU
10 02 90	75	2,5	165	25	12
10 02 92	100	3,5	190	40	12
10 02 94	125	4,5	225	70	12
10 02 96	150	5,5	260	105	12

## Retaining screwdrivers



chrome vanadium steel, nickel-plated, with green plastic handle, retaining device



Art. No.	size	M	lob	length	weight	PU
10 03 00	0	- 2	125	225	70	12
10 03 02	1	2 - 3	150	260	105	12
10 03 04	2	3 - 5,2	175	285	130	12

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## Flexible screwdrivers „Piccolo“



with pliable, plastic coated shank, plastic handle



Art. No.	lob	CW	length	weight	PU
10 03 64	125	2,8	205	20	1

## Claw retrievers

with flexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. No.	size	weight	PU
10 03 66	525	115	1

## Claw retrievers

with flexible shaft, chrome-plated, for gripping and retrieving of small parts in normally inaccessible places



Art. No.	size	weight	PU
10 03 68	165	30	1

## Checking mirrors

with double ball joint



Art. No.	length	Ø	weight	PU
10 06 80	210	60	45	1

## Checking mirrors

with illumination, flexible shaft and plastic handle, 3 interchangeable mirrors Ø 14-23-30 mm, with battery



Art. No.	length	weight	PU
10 06 84	530	125	1

## Magnetic retriever

flexible shaft and plastic handle



Art. No.	length	Ø	weight	PU
10 06 94	520	12	230	1

## Miniature trimming set

9-pieces



Art. No.	weight	PU
10 06 96	210	1

## Allen keys DIN 911



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated



Art. No.	size	M	M/Inch	dimension	weight	PU
10 05 90	1,5	-	1/16	45 x 14	1	5
10 05 92	2	-	5/64	50 x 16	2	5
10 05 94	2,5	3	3/32	56 x 18	4	5
10 05 96	3	4	1/8	63 x 20	5	5
10 05 98	4	5	5/32	70 x 25	5	5
10 06 00	5	6	3/16	80 x 28	15	5
10 06 02	6	8	1/4	90 x 32	30	5
10 06 06	8	10	5/16	100 x 36	60	5
10 06 10	10	12	3/8	112 x 40	105	5
10 06 12	12	14	-	125 x 45	160	5
10 06 14	13	-	1/2	132 x 50	215	5

## Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated, DIN 911, 8 pieces in handy plastic box, with sliding plexiglasscover, size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	set	weight	PU
10 05 85	8-pieces	290	1

## Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911

Art. No. 10 06 30: Contents: 2,5 - 3 - 4 - 5 - 6 - 8 mm

Art. No. 10 06 33: Contents: 1,5 - 2,5 - 3 - 4 - 5 - 6 mm

Art. No. 10 06 34: Contents: 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Art. No. 10 06 32: Contents: 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16" AF

Art. No. 10 06 35: Contents: 1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32" AF

Art. No. 10 06 36: Contents: 3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8" AF



Art. No.	quantity	weight	PU
10 06 30	6	220	1
10 06 33	7	150	1
10 06 34	7	350	1
10 06 32	6	240	1
10 06 35	7	150	1
10 06 36	7	370	1



## Allen keys set



chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, on key ring  
Contents: size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	quantity	weight	PU
10 06 40	8	250	10

## Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated



Art. No.	mm	length	weight	PU
10 09 02	2,5	56 x 18	4	10
10 09 03	3	63 x 20	5	10
10 09 04	4	70 x 25	10	10
10 09 05	5	80 x 28	18	10
10 09 06	6	90 x 32	30	10
10 09 08	8	100 x 36	59	5
10 09 09	10	112 x 40	103	5

## Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), im metal clip, black keys, DIN 911  
Contents: size 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	quantity	weight	PU
10 09 17	7	370	1

## Ball point allen keys



chrome vanadium steel, (59 Cr-Mo-V 4), DIN 911, chromium-plated, 8 pieces in handy plastic box, with pushable plexiglasscover, size 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10



Art. No.	set	weight	PU
10 09 15	8-pieces	290	6

## Ball point allen keys



straight blade of chrome vanadium steel, (59 Cr-Mo-V 4), chromium-plated, with plastic handle



Art. No.	size	lob	length	weight	PU
10 10 06	1,5	75	155	30	12
10 10 08	2	100	180	30	12
10 10 12	3	100	180	35	12
10 10 14	4	100	200	50	12
10 10 16	5	100	200	75	12
10 10 18	6	125	225	90	12
10 10 20	8	150	250	155	12
10 10 22	10	150	250	225	12
10 10 24	12	150	260	300	12

## Allen keys Tx



chrome vanadium steel, (59 Cr-Mo-V 4), nickel-plated



Art. No.	size	length	weight	PU
10 09 64	TX 5	42 x 16	2	10
10 09 66	TX 6	42 x 16	2	10
10 09 68	TX 7	48 x 16	2	10
10 09 70	TX 8	48 x 16	3	10
10 09 72	TX 9	48 x 16	3	10
10 09 74	TX 10	51 x 17	4	10
10 09 88	TX 45	83 x 29	43	10

## Allen keys set Tx



chrome vanadium steel, (59 Cr-Mo-V 4), 8 pieces in handy plastic box, surface black, Contents: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	set	weight	PU
10 09 41	8-pieces	110	6

## Keys set Tx



chrome vanadium steel, (59 Cr-Mo-V 4), in metal-clip, surface black, keys black  
Contents: TX 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40



Art. No.	quantity	weight	PU
10 09 43	8	260	1

**VDE/GS-Voltage testers, VDE-tested 0426/72**

with clear-transparent, shock-resistant plastic handle

Art. No. 10 06 46 each in wallet

Art. No. 10 06 47 loose



Art. No.	test	lob	CW	length	weight	PU
10 06 46	100 - 250	50	3	140	20	12
10 06 47	100 - 250	50	3	140	12	12

**VDE/GS-Voltage testers, VDE-tested 0426/72**

with clear-transparent, shock-resistant plastic handle

Art. No. 10 06 48 each in wallet

Art. No. 10 06 49 loose



Art. No.	test	lob	CW	length	weight	PU
10 06 48	100 - 250	100	3,5	190	25	12
10 06 49	100 - 250	100	3,5	190	18	120

**Voltage testers**

Finnish type, Cellidor

only for Finland available



Art. No.	test	lob	CW	length	weight	PU
10 06 45	150 - 250	50	3	140	20	12

**Voltage testers VDE/GS**

with retractable screwdriver blade



Art. No.	test	lob	CW	length	weight	PU
10 06 50	150 - 250	25	4	140	25	12

**Voltage testers VDE/GS**

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



Art. No.	test	length	weight	PU
10 07 00	125 - 250	190	25	12

**INFO****Bits**

HAUPA-Bits are made of high-alloyed tool steel, best hardened (H Rc 60 - 63). They show very high tenacity and tolerance. The long life speaks of the hard use and quality.

**Screwdriver bits**

DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 10	0,6 x 4,5	50	1
10 21 12	0,8 x 5,5	50	1

**Screwdriver bits**

DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 52	PH 1	25	1
10 21 54	PH 2	25	1
10 21 56	PH 1 TiN	25	1
10 21 58	PH 2 TiN	25	1
10 21 14	PH 1	50	1
10 21 16	PH 2	50	1
10 21 60	PH 1 TiN	50	1
10 21 62	PH 2 TiN	50	1
10 21 64	PH 1	90	1
10 21 66	PH 2	90	1
10 21 68	PH 1 TiN	90	1
10 21 70	PH 2 TiN	90	1
10 21 72	PH 1	150	1
10 21 74	PH 2	150	1

## Screwdriver bits



DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 21 76	PZ 1	25	1
10 21 78	PZ 2	25	1
10 21 80	PZ 1 TiN	25	1
10 21 82	PZ 2 TiN	25	1
10 21 18	PZ 1	50	1
10 21 20	PZ 2	50	1
10 21 84	PZ 1 TiN	50	1
10 21 86	PZ 2 TiN	50	1
10 21 88	PZ 1	90	1
10 21 90	PZ 2	90	1
10 21 92	PZ 1 TiN	90	1
10 21 94	PZ 2 TiN	90	1
10 21 96	PZ 1	150	1
10 21 98	PZ 2	150	1

## Screwdriver bits Tx



DIN 3126, form E 6,3, shank 1/4", 5 pieces on card



Art. No.	size	length	PU
10 22 00	TX 15	25	1
10 22 02	TX 20	25	1
10 22 04	TX 25	25	1
10 21 22	TX 15	50	1
10 21 24	TX 20	50	1
10 21 26	TX 25	50	1

## Magnetic holder

with strong magnetic, shank 1/4", form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, suitable for all



Art. No.	length	weight	PU
10 21 30	75	44	1

## SDS magnetic holder

with strong permanent magnet, bit holder 1/4", form C 6.3 DIN 3126, to hold screws, rust-free, stainless steel sleeve, suitable for SDS bits holders



Art. No.	length	weight	PU
10 21 31	55	44	1

## Magnetic holder

with strong magnetic, shank 1/4", form C 6,3 DIN 3126, for holding the screws, socket made of stainless steel, with inside ring, suitable for all



Art. No.	length	weight	PU
10 21 32	75	36	1
10 21 34	60	28	1

## Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 2 Bits 1/4" slotted, 2 bits 1/4" Phillips, 2 bits 1/4" Pozidriv



Art. No.	set	weight	PU
10 21 40	7-pieces	95	15

## Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 3 bits 1/4" slotted, 3 bits 1/4" Phillips, 3 bits 1/4" Pozidriv

Art. No. 10 01 44 without clamp holder for the magnetic holder



Art. No. 10 21 44



Art. No. 10 21 42



Art. No.	set	weight	PU
10 21 42	10-pieces	110	12
10 21 44	10-pieces	110	12

## Bit boxes



Contents:

1 magnetic holder 1/4" hexagon, 3 bits 1/4" Phillips, 3 bits 1/4" Pozidriv (TiN-coated)



Art. No.	set	weight	PU
10 21 48 TiN	7-pieces	97	15

Bit boxes



Contents: 1 magnetic holder 1/4" hexagon, 2 bits slotted, 2 bits 1/4" Phillips, 2 bits 1/4" Pozidriv



Art. No.	set	weight	PU
10 21 46	7-pieces	86	15

Bit boxes Tx



Contents: 1 magnetic holder 1/4" hexagon, 1 bit each Tx 10, Tx 15, Tx 20, Tx 25, Tx 27, Tx 30, Tx 40



Art. No.	set	weight	PU
10 21 50	8-pieces	92	15



**Socket tools**

Socket sets, Engineering tools

## Double ended spanners acc. to DIN 3110

chrome vanadium steel, bright chromium-plated, head polished, offset at 15°



Art. No.	mm	length	strength	weight	PU
11 00 90	6 x 7	120	3,2	20	5
11 00 92	8 x 9	140	3,5	30	5
11 00 94	10 x 11	157	4,0	42	5
11 00 96	12 x 13	172	4,5	57	5
11 01 00	14 x 15	190	5,0	93	5
11 01 04	16 x 17	205	5,5	110	5
11 01 08	18 x 19	223	6,0	145	5
11 01 12	21 x 23	250	7,0	225	5
11 01 14	24 x 26	250	7,0	290	5
11 01 20	27 x 32	302	8,2	420	5

## Double ended spanners set acc. to DIN 3110

chrome vanadium steel, chromium-plated, head polished, in plastic bags

Contents:

Art. No. 11 01 30: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22

Art. No. 11 01 32: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 32



Art. No.	set	weight	PU
11 01 30	8-pieces	730	1
11 01 32	12-pieces	2000	1

## Double ended ring spanners to DIN 838

chrome vanadium steel, bright chromium-plated, head polished, offset at 75°



Art. No.	mm	length	weight	PU
11 01 40	6 x 7	170	38	5
11 01 42	8 x 9	185	60	5
11 01 44	10 x 11	205	86	5
11 01 46	12 x 13	220	130	5
11 01 48	14 x 15	240	160	5
11 01 52	16 x 17	265	205	5
11 01 54	18 x 19	280	255	5
11 01 60	24 x 26	335	450	5
11 01 64	27 x 32	370	630	5

## Double ended ring spanner sets DIN 838

chrome vanadium steel, bright chromium-plated, head polished, in plastic bags  
Contents:

Art. No. 11 01 70: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22

Art. No. 11 01 72: 1 piece each 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 32



Art. No.	set	weight	PU
11 01 70	8-pieces	1350	1
11 01 72	12-pieces	3430	1

## Combination spanners similar to DIN 3113

chrome vanadium steel, chromium-plated, head polished, offset at 15°



Art. No.	mm	length	weight	PU
11 01 80	6	100	13	5
11 01 82	7	110	16	5
11 01 84	8	120	23	5
11 01 86	9	130	25	5
11 01 88	10	140	35	5
11 01 90	11	150	45	5
11 01 92	12	160	52	5
11 01 94	13	170	70	5
11 01 96	14	180	85	5
11 01 98	15	190	95	5
11 02 02	17	210	125	5
11 02 04	18	220	140	5
11 02 06	19	230	160	5
11 02 12	22	260	255	1
11 02 16	24	280	285	1
11 02 22	27	310	390	1

## Combination spanners similar to DIN 3113

chrome vanadium steel, bright chromium-plated, head polished, in plastic bags  
Contents:

Art. No. 11 02 50: 1 piece each SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22

Art. No. 11 02 52: 1 piece each SW 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 22 - 24 - 27



Art. 11 02 50

Art. 11 02 52

Art. No.	set	weight	PU
11 02 50	12-pieces	985	1
11 02 52	16-pieces in paper box	3000	1

## Socket set

1/4"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/4" Dr  
Contents: 12-Socket: 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13mm, 1-Ratchet  
Handle, 72-gears with Quick release function,  
14-insert bit socket PH: 1-2-3, HX: 3-4-5-6-8, TX: 10-15-20-25-27-30, 1-Flexible  
extension bar, 2-Extension bars 50 & 100mm, 1-Universal joint, 1-sliding T-bar,  
1-Spinner handle for screwdriver



Art. No.	set	weight	PU
11 06 74	33-pieces	1300	1

## Socket set

3/8"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 3/8" Dr  
Contents: 18-Socket: 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24mm,  
1-Ratchet Handle, 72-gears with Quick release function, 1-Universal joint, 1-sliding  
head for extension bar work as T handle, 2-Spark plug socket 16 & 21mm,  
3-Extension bars 20-75-150mm



Art. No.	set	weight	PU
11 06 76	26-pieces	2400	1

## Socket set

1/2"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case, 1/2" Dr  
Contents: 20-Socket: 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-  
30-32mm, 1-Ratchet Handle, 72-gears with Quick release function, 1-Extension  
bar, Safety locking type 250mm, 1-Extension bar 125mm,  
1-sliding T-bar 300mm,  
1-Universal joint



Art. No.	set	weight	PU
11 06 77	25-pieces	5950	1

## Socket set

1/4" 1/2"

chrome vanadium steel, „Profi“-quality GS-tested, black plastic case,  
Contents: **1/4"**: 12-Socket 4- 4.5- 5- 5.5- 6- 7- 8- 9- 10- 11- 12- 13mm,  
1-Ratchet Handle, 72-gears with Quick release function, 1-Universal joint,  
1-sliding head for extension bar work as T handle, 2-Extension bars 50 &  
150mm, 1-Spinner handle for screwdriver, 12-Insert Bit-Sockets: PH: 1-2;  
HX: 3-4-5-6; FD: 5.5-7; TX: 20-25-27-30, 5-Hex keys: 1.25- 1.5- 2.0- 2.5- 3.0mm  
**1/2"**: 13-Socket 10-11-12-13-14-15-17-19-22-24-27-30-32mm, 1-Ratchet  
Handle, 72-gears with Quick release function,  
2-Extension bars 75 & 250mm, 1-sliding head for extension bar work as  
T handle, 2-Plug sockets 16 & 21mm, 1-Universal joint



Art. No.	set	weight	PU
11 06 78	53-pieces	5750	1

## Spanners for switch-cabinets

made of metall for hight torques, small size, low weight, with chain inside square  
6 mm, inside square 7 - 8 mm, inside threesquare 7 - 8 mm,  
double size 3 - 5 mm



Art. No.	size	weight	PU
11 06 96	72 x 72	20	10



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## Adjustable wrenches to DIN 3117 A

steel forged, chromium-plated  
(I = Importquality)



Art. No.	length	a-range	depth jaw	th. jaw	weight	PU
11 05 80	160	19	18	11	120	6
11 05 82	210	24	21	13	255	6
11 05 82I	210	24	21	13	255	6
11 05 84	260	29	24	15	440	6
11 05 84I	260	29	24	15	440	6
11 05 86	310	34	28	19	630	6
11 05 86I	310	34	28	19	630	6

## Adjustable wrenches to DIN 3117 A

steel forged, head polished, gun metal finish



Art. No.	length	a-range	depth jaw	th. jaw	weight	PU
11 05 90	160	19	18	11	120	6
11 05 92	210	24	21	13	255	6
11 05 94	260	29	24	15	440	6
11 05 96	310	34	28	19	630	6



**Pliers**

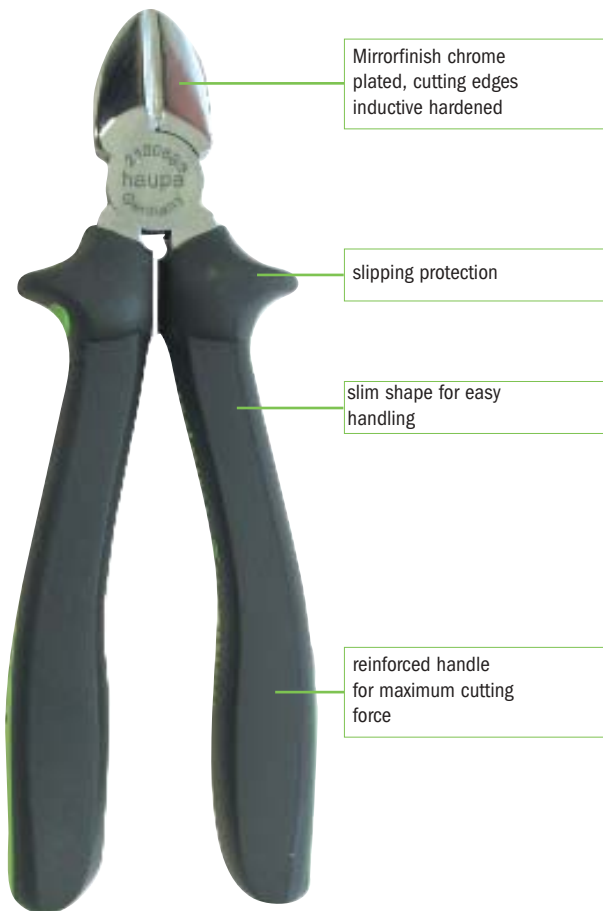
Wire stripping pliers, Grip pliers,  
Pipe wrenches, Special pliers  
Tweezers

# Black Line

## 2-component pliers

New pliers range with 2-component handle made from polypropylene and thermoplastic elastomer.

Ergonomic design.



### 2-component Combination pliers DIN 5746

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 00 52	160	4,0	2,0	200	1
21 00 53	180	4,0	2,2	250	1
21 00 54	200	4,2	2,5	310	1

### 2-component Diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 00 67	140	4,0	1,8	150	1
21 00 68	160	4,0	2,0	180	1

### 2-component Heavy duty diagonal cutters DIN 5749

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head, for soft wire and hard wire



Art. No.	length	soft	hard	weight	PU
21 01 57	180	4,0	2,7	293	1
21 01 58	200	4,2	3,0	310	1

### 2-component Long flat nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 13	160	145	1

### 2-component Long round nose pliers DIN 5745

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 50	160	130	1

### 2-component Long chain nose pliers DIN 5745

with side cutter, straight, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 94	160	115	1
21 03 96	200	165	1

### 2-component Long chain nose pliers DIN 5745

with side cutter, 45° angled nose, alloyed carbon steel, forged and annealed, cutting edges induction hardened, for soft wire and hard wire, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	weight	PU
21 03 98	200	180	1

### 2-component Wire stripping pliers DIN 7168

alloyed carbon steel, forged and annealed, cutting edges induction hardened, with 2 component plastic handle with hand protection, chromium-plated, polished head



Art. No.	length	mm²	weight	PU
21 06 44	160	0,6 - 10	170	1

### 2-component Water pump pliers DIN 8976

chrome vanadium steel, forged and annealed, curved jaws, gripping chuck hardened, self-locking nut, finger protection, with 2 component plastic handle with hand protection, chromium-plated



Art. No.	length	mm	weight	PU
21 05 84	240	25	440	1

### 2-component Pliers set

4-pieces



Art. No.	set	contents	weight	PU
22 01 28	4-pieces	1 combination pliers 180 mm 1 diagonal cutter 160 mm 1 long chain nose pliers 200 mm 1 wire stripping pliers 160 mm	800	1

### 2-component Pliers set

4-pieces



Art. No.	set	contents	weight	PU
22 01 29	4-pieces	1 combination pliers 180 mm 1 heavy duty diagonal cutter 180 mm 1 long chain nose pliers 200 mm 1 wire stripping pliers 160 mm	800	1



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...because quality matters

### Electronic End cutting nippers

box joint, narrow rounded head,  
for wire up to 200 kp/mm<sup>2</sup>,  
black PCV-coated handle,  
without cutting-facet, bright



Art. No.	length	weight	PU
21 02 04	120	75	1

### Electronic Angled end cutters

box joint, narrow rounded head,  
for wire up to 200 kp/mm<sup>2</sup>,  
black PCV-coated handle,  
without cutting-facet, bright



Art. No.	length	weight	PU
21 02 06	120	75	1

### Electronic Long flat-round nose pliers „Langbeck“, angled

box joint, C 45, oil-hardened, with double spring, dazzlefree,  
black PCV-coated handle, bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 23	140	70	1

### Electronic Long flat nose pliers „Langbeck“, angled

box joint, C 45, oil-hardened, black PCV-coated handle,  
bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 25	140	70	1

### Electronic Short chain nose pliers, angled

flat round jaws, black PCV-coated handle,  
bright, 45° angled jaws



Art. No.	length	weight	PU
21 03 27	115	60	1

### Electronic Diagonal cutters

box joint, narrow rounded head, with wire clamp, prevents damaging of circuits,  
black PCV-coated handle,  
for wire up to 200 kp/mm<sup>2</sup>,  
without cutting-facet, bright

wire clamp



Art. No.	length	weight	PU
21 01 12	110	70	6

### Electronic Diagonal cutters

box joint, narrow rounded head,  
black PCV-coated handle, for copper wire  
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 04	110	60	6
21 01 06	130	100	6

### Electronic Diagonal cutters

box joint, for copper wire and specially usefull for difficult accessible regions,  
rounded head, handles angled at 25°, black PCV-coated handle,  
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 36	125	95	6

### Electronic Diagonal cutters

box joint, narrow rounded head,  
for wire up to 200 kp/mm<sup>2</sup>,  
black PCV-coated handle,  
with cutting-facet, bright



Art. No.	length	weight	PU
21 01 07	110	60	6
21 01 08	130	100	6

### Electronic Diagonal cutters

box joint, slim head, for wire up to 140 kp/mm<sup>2</sup>,  
black PCV-coated handle,  
without cutting-facet, bright



Art. No.	length	weight	PU
21 01 11	110	60	6

### Electronic Short flat nose pliers

box joint, short jaws  
black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 60	115	45	6



### Electronic Short chain nose pliers

flat round jaws, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 62	115	45	6

### Electronic Short round nose pliers

box joint, C 45, oil-hardened, short jaws, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 02 94	115	45	6

### Electronic Long flat nose pliers „Langbeck“

box joint, C 45, oil-hardened, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 20	140	80	6

### Electronic Long flat-round nose pliers „Langbeck“

box joint, C 45, oil-hardened, with double spring, dazzlefree, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 22	140	70	6

### Electronic Long needle nose pliers

box-joint, long ovalpointed jaws, black PCV-coated handle, bright



Art. No.	length	weight	PU
21 03 24	140	70	6

### Microelectronic-Side cutters

without cutting-facet, clearance angle: 50°, with clip, for soft wires up to 0,8 mm²



Art. No.	length	weight	PU
21 17 08	118	90	6

### Microelectronic-Side cutters

without cutting-facet, clearance angle: 21°, with clip, for soft wires up to 1,3 mm²



Art. No.	length	weight	PU
21 17 20	132	90	6
21 17 22	158	105	6

### Electronic set

bright, black PCV-coated, 9-pieces:

1 flat noise pliers 115 mm, 1 round noise pliers 115 mm, 1 chain noise pliers 115 mm, 1 front cutting nipper 115 mm, 1 front cutting nipper, angled 115 mm, 1 side cutter 115 mm, 1 tweezer bended 145 mm, 1 tweezer straight 145 mm, 1 mirror



Art. No.	set	weight	PU
21 04 46	9-pieces	795	1

### Tweezers

special design for wafers, long, extra small blades, needle fine top ends, stainless steel, antimagnetism acid resistant.



Art. No.	length	weight	PU
21 10 80	130	14	1



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...because quality matters

## Grip pliers

one jaw straight, one jaw movable, forged of chrome vanadium, a real universal plier for gripping any kind of workpiece, flat round or square, with quick-release lever



Art. No.	length	mm	weight	PU
21 05 56	250	0 - 40	630	1

## Grip pliers

jaws drop, forged of chrome vanadium, adjustable, quick-release lever, half-round jaws, with wire cutter



Art. No.	length	mm	weight	PU
21 05 62	250	0 - 40	560	1

## Pipe wrenches

chrome vanadium steel, polished



Art. No.	for tubes	length	mm	weight	PU
21 05 92	1"	320	45	760	1
21 05 94	1 1/2"	435	59	1370	1
21 05 96	2"	560	76	2700	1

## Tower pincers DIN 5242

black painted, polished head, C 45, oil-hardened, cutting edges induction hardened, for cable of 150 kp/mm<sup>2</sup> (N 1500)



Art. No.	length	weight	PU
21 02 30	220	340	6

## Riveting pliers

made of aluminium-pressure casting, all inner parts made of special alloyed steel and hardened, with 4 exchangeable nozzles 2,4-3-4-5 mm, for blind rivets of aluminium-copper or steel



Art. No.	length	for rivets	weight	PU
21 07 70	250	2,4 - 3 - 4 - 5	480	1

## Riveting tool set

in portable plastic box, consisting of 1 plier no. 21 07 70, 100 pieces of alu space rivets 4 mm Ø, short-middle-long, 2 twist drills and washers



Art. No.	length	weight	PU
21 07 76	250	1200	1

## Sealing pliers

made of cast iron, punch exchangeable and hardened, bright nickel-plated



Art. No.	length	die-Ø	weight	PU
21 07 00	125	8	230	1
21 07 02	145	9	340	1
21 07 04	165	10	430	1

## Dies for sealing pliers

loose dies



Art. No.	die-Ø	weight	PU
21 07 10	8	5	1
21 07 12	9	5	1
21 07 14	10	5	1

## Engraving for sealing pliers

Special engraving on request

Art. No.	
21 07 31	up to 3 letters
21 07 32	every further letter
21 07 33	every border

## **Accessories**

Tackle blocks, clamps, stocks and dies  
Fish tapes, tools for plastering work  
Seal wire, solder and soldering tools



## Tackle blocks

made from steel, with turnable hooks, 2 blocks, rust protected finish, with 3 brass rolls



Art. No.	roll-Ø	rope-Ø	capacity kg	weight	PU
13 00 04	50	8	200	1820	1
13 00 06	60	10	250	1960	1

## Hemp tackle block ropes

20 m long



Art. No.	rope-Ø	weight	PU
13 00 42	8	950	1
13 00 44	10	1330	1

## Parallel rope tension clamps

for copper and steel cables and wires



Art. No.	for ropes		load kg	weight	PU
	mm <sup>2</sup>	Ø			
13 00 64	6-35	3 - 8	1000	890	1
13 00 66	16-70	4-12	1400	1230	1
13 00 68	50-150	8-16	2500	1920	1

## Steel stamp, figures (0 - 9) DIN 1451



Art. No.	length	AF	set	weight	PU
13 02 00	3	1/8	0 - 9	150	1
13 02 01	4	5/32	0 - 9	200	1
13 02 02	5	3/16	0 - 9	300	1
13 02 03	6	1/4	0 - 9	450	1
13 02 04	8	5/16	0 - 9	650	1
13 02 06	10	7/16	0 - 9	800	1

## Steel stamp, letters (A - Z), DIN 1451



Art. No.	length	AF	set	weight	PU
13 02 08	3	1/8	A - Z	650	1
13 02 09	4	5/32	A - Z	650	1
13 02 10	5	3/16	A - Z	850	1
13 02 11	6	1/4	A - Z	1300	1
13 02 12	8	5/16	A - Z	1950	1
13 02 14	10	7/16	A - Z	2200	1

## Complete stocks, metric thread



Art. No.	size	weight	PU
14 02 14	M 16, M 20, M 25	1850	1
14 02 16	M 20, M 25	1350	1
14 02 18	M 32, M 40	2850	1
14 02 20	M 50, M 63	3500	1

## Dies, metric thread



Art. No.	size	weight	PU
14 02 22	M 16	175	1
14 02 24	M 20	165	1
14 02 26	M 25	145	1
14 02 28	M 32	130	1
14 02 30	M 40	130	1
14 02 32	M 50	125	1
14 02 34	M 63	170	1

## Guides, metric



Art. No.	size	weight	PU
14 02 50	M 16	50	1
14 02 52	M 20	40	1
14 02 54	M 25	35	1
14 02 56	M 32	30	1
14 02 58	M 40	30	1
14 02 60	M 50	70	1
14 02 62	M 63	90	1

## Wire brushes



Art. No.	length	weight	PU
15 00 02	300	130	6

## Water brushes

real bristles, vulcanized, textile bound, bristles-Ø 24 mm, length of bristle 48 mm



Art. No.	weight	PU
15 00 04	30	12

## Plaster cups

soft rubber



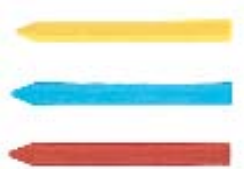
Art. No.	height	Ø	weight	PU
15 00 06	125	90	125	1

## Carpenters' pencils



Art. No.	weight	PU
15 00 90	150	12

## Marking chalk



Art. No.	colour	weight	PU
15 00 15 G	yellow	200	12
15 00 15 B	blue	200	12
15 00 15 R	red	200	12

## Impact cord rollers

without chalk, cord length 15 m



Art. No.	weight	PU
15 00 16	255	6

## Chalk

in plastic bottles, 250 g



Art. No.	colour	weight	PU
14 05 10	red	250	10
14 05 20	blue	250	10
14 05 30	yellow	250	10

## Chalk

in bags



Art. No.	colour	weight	PU
15 00 18 G	yellow	50	12
15 00 18 R	red	50	12
15 00 18 B	blue	50	12
15 00 18 W	white	50	12



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## Paint scrapers

steel, polished blade, with oval wooden handle



Art. No.	length	width	weight	PU
15 00 22	185	30	50	12
15 00 24	185	40	55	12
15 00 26	205	50	60	12
15 00 28	205	60	70	12

## Lead seals



Art. No.	Ø	1 kg = approx. x piece	weight	PU
15 03 40	8	850	1000	1 kg
15 03 42	9	600	1000	1 kg
15 03 44	10	400	1000	1 kg
15 03 46	11	350	1000	1 kg
15 03 48	12	300	1000	1 kg

## Plastic seals



Art. No.	Ø	weight	PU
15 03 43	9	200	1000
15 03 45	10	250	1000

## Seal wire



Art. No.	thickness-Ø	weight real	length	weight	PU
15 03 60	0,5 x 0,5	0,5	115 m	520	1
15 03 62	0,5 x 0,5	1	230 m	1060	1
15 03 64	0,5 x 0,3	0,5	190 m	555	1
15 03 66	0,5 x 0,3	1	380 m	1040	1
15 03 68	0,3 x 0,3	0,5	300 m	500	1
15 03 70	0,3 x 0,3	1	600 m	1000	1

## Plastic seal wire



Art. No.	colour	length	Ø	weight	PU
15 03 75 B	blue	100 m	1,23	200	1
15 03 75 G	green	100 m	1,23	200	1
15 03 75 R	red	100 m	1,23	200	1

## Soldering irons

chrome nickel steel tube, with schuko safety plug, replaceable nickel-plated copper tips



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 42	220	60	5	265	240	1
16 01 44	220	80	7	315	300	1
16 01 46	220	100	7	320	300	1

## Soldering irons

with plastic handle, with schuko safety plug, replaceable copper tips, nickel-plated



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 50	220	30	4	250	165	1

## Soldering irons

soldering tip internally heated, chrome vanadium tube, with plastic handle, with schuko safety plug, replaceable nickel-plated copper tips, for electronic work



Art. No.	volt	watt	soldering tip		weight	PU
			Ø	length		
16 01 90	220	15	2,5 x 60	200	80	1

## Soldering set

Contents:

- 1 Electric soldering Iron 80 Watt
- 1 Hobbyists' solder 1 m
- 1 Radio solder 1 m
- 1 Soldering grease 20 g



Art. No.	weight	PU
16 02 34	540	1



### Solder in triangular sticks DIN 1707

length approx. 430 mm, approx. 250 g per stick, size: 11 x 11 x 11 x 430 mm



Art. No.	Sn %	weight	PU
16 01 12	30	250	1
16 01 14	40	250	1
16 01 16	60	250	1

### Soldering stone



Art. No.	size	weight	PU
16 01 30	65 x 45 x 20	70	1

### Soldering paste acc. to DIN 8511-F-SW 26

rosin halide-activated, field of application: electro-technic, electronics, manufacture of electrical appliances



Art. No.	weight	PU
16 00 90	50	24

### Soldering fluid acc. to DIN 8511-F-SW 32

rosin halide-activated, field of application: electro-technic, electronics, manufacture of electrical appliances



Art. No.	ml	weight	PU
16 00 92	50	50	1

### Grease for soft soldering acc. to DIN 8511-F-SW 21

ammonium chloride, organic preparation  
field of application: general soldering work



Art. No.	ml	weight	PU
16 00 94	50	50	24
16 00 96	100	100	12

### Soldering grease for fittings acc. to DIN 8511-F-W 22

field of application: sanitary technics, copper tubes etc.



Art. No.	ml	weight	PU
16 01 00	70	80	1

### Soldering fluid acc. to DIN 8511-F-W 21

ammonium chloride, organic preparation  
field of application: sanitary technics, copper tubes etc.



Art. No.	ml	weight	PU
16 01 02	50	65	1

**Solder for electronic work acc. to DIN EN 29453**

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26),  
S-Sn60Pb40, rosin halide-activated



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 20	60	1		100	105	12
16 00 22	60	1		250	255	12
16 00 24	60	1		500	510	1
16 00 26	60	1		1000	1015	1
16 00 28	60	1,5	1 m		14	48
16 00 30	60	1,5		100	105	12
16 00 42	60	1,5		250	255	12
16 00 44	60	1,5		500	510	1
16 00 46	60	1,5		1000	1015	1
16 00 50	60	2		100	105	12
16 00 52	60	2		250	255	6
16 00 54	60	2		500	510	1

**Solder for electronic work acc. to DIN EN 29453**

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.3.B (F-SW 32), rosin  
halide-activated



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 00	60	1	1 m		6	48
16 00 02	60	1		100	105	12
16 00 04	60	1		250	255	12
16 00 06	60	1		500	510	1
16 00 08	60	1		1000	1015	1
16 00 12	60	1,5		100	105	12
16 00 14	60	1,5		250	255	12
16 00 16	60	1,5		500	510	1
16 00 18	60	1,5		1000	1015	1

**Solder for electronic work acc. to DIN EN 29453**

antimony-free, soldering flux acc. to DIN EN 29454, 1.1.2.B (F-SW 26),  
S-Pb60Sn40, rosin halide-activated



Art. No.	Sn %	Ø	role weight	weight	PU
16 00 60	40	2	100	105	12
16 00 62	40	2	250	255	12

**Fittings' solder acc. to DIN EN 29453**

low antimony content, soldering flux acc. to DIN EN 29454, 2.1.3.B (F-SW 24),  
S-Pb60Sn40, ammonium chloride based, organically prepared



Art. No.	Sn %	Ø	length	role weight	weight	PU
16 00 70	40	1,5	1 m		16	48
16 00 72	40	2		100	105	12
16 00 74	40	2		250	255	12

**Fittings' solder acc. to DIN 29453, solid**

S-Pb50Sn50 low antimony content



Art. No.	Sn %	Ø	role weight	weight	PU
16 00 80	50	3	100	105	12
16 00 82	50	3	250	255	12

**Chisels, Hammers**

Files, rasps

## Flat chisels to DIN 6453 A, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 08	200	28	23 x 13	365	5
18 00 10	250	28	23 x 13	470	5
18 00 12	300	32	26 x 13	680	5

## Stone chisels, flat oval shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 42	250	28	20 x 12	380	5
18 00 44	300	32	23 x 13	600	5

## Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	CW	Cth	weight	PU
18 00 62	250	28	16	390	5
18 00 64	300	30	18	530	5

## Jointing chisels

chrome vanadium air hardenend steel, golden varnishes, for light works, the wide and flat cutting edge allows a quick working and avoid a breaking out of the wall



Art. No.	length	CW	Cth	weight	PU
18 00 76	250	26	26 x 7	230	10

## Stone chisels, octagonal shank

chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	Cth	weight	PU
18 00 82	250	14	280	5
18 00 84	300	16	420	5

## Electricians' chisels

chrome vanadium air hardenend steel, golden varnishes, octagonal shank



Art. No.	length	CW	Cth	weight	PU
18 00 90	200	8	6 x 6	55	10
18 00 92	250	10	8 x 8	120	10
18 00 94	250	12	8 x 8	120	10
18 00 96	250	15	10 x 10	225	10

## Rubber hand guards

total length 140 mm, max. Ø 90 mm, for chisels flat oval shank



Art. No.	size	mm	weight	PU
18 01 10	3	23 x 13	180	1

## Centre punches to DIN 7250

octagonal shank, chrome vanadium air hardenend steel, golden varnishes



Art. No.	length	shank-Ø	weight	PU
18 01 20	120	12	100	10

## Pin punch set

golden varnishes, in folding metal case



Art. No.	weight	PU
18 01 70	1 pc each 3 - 4 - 5 - 6 - 8 - 10 mm	760 1

## Household hatchets

varnished and polished cutting edge, DIN 5131



Art. No.	weight	PU
18 01 73	600	1

## Engineers' hammers DIN 1041

with polished grooved ash-handle, with steel handle protection



Art. No.	head weight	weight	PU
18 01 80	100	170	6
18 01 82	200	280	6
18 01 84	300	400	6
18 01 86	400	505	6
18 01 88	500	615	6

## Engineers' hammers DIN 1041

with steel pipe handle and rubber grip



Art. No.	head weight	weight	PU
18 02 00	300	625	6
18 02 02	500	845	6

## Engineers' hammers DIN 1041

with red ultramid handle, low vibration



Art. No.	head weight	weight	PU
18 02 32	300	390	6

## Engineers' hammers

english pattern, ball pein



Art. No.	head weight	weight	PU
18 02 74	3/4 lbs.	340	6
18 02 76	1 lbs.	450	6

## Double faced sledges to DIN 6475

with steel pipe handle and rubber grip



Art. No.	head weight	weight	PU
18 02 90	1000	1290	6
18 02 92	1250	1500	6

## Sledge hammers to DIN 6475

with polished ash handle, with steel handle protection



Art. No.	head weight	weight	PU
18 03 00	1000	1080	6
18 03 02	1250	1380	6

## Plastic hammers

with replaceable celluloid striking faces and ash handle



Art. No.	head weight	weight	PU
18 03 34	32	340	6

## Hammer handles to DIN 5111 B

ash wood, black varnishes



Art. No.	for engineers' hammers	weight	PU
18 03 72	200	52	10
18 03 74	300	80	10
18 03 78	500	125	10

## Sledge handles to DIN 5135 A

ash wood, black varnishes



Art. No.	for sledge hammers	weight	PU
18 03 90	1000	115	10
18 03 92	1250	115	10

## Firmer chisels DIN 5139

with bevelled edges and polished wood handle and cutting edge protector



Art. No.	lob	CW	length	weight	PU
18 04 64	150	14	280	120	6
18 04 66	150	16	280	135	6
18 04 68	150	18	280	150	6
18 04 70	150	20	280	160	6
18 04 74	150	24	280	185	6

## Warding files DIN 7283

Set: 6 files with wooden handle, section A, B, C, D, E, F  
in plastic wallet



Art. No.	length	set	weight	PU
19 01 20	100	6-pieces	125	10

## Contact files

Set: 6 files in plastic wallet



Art. No.	length	set	weight	PU
19 01 26	130	6-pieces	60	10

## Files assortment

5 files in plastic wallet, files with plastic handle

round  
square  
flat  
half round  
triangular



Art. No.			set	weight	PU
19 01 30	bastard cut 1	each piece 200 mm	5-pieces	775	1
19 01 32	smooth cut 3	each piece 200 mm	5-pieces	775	1



## **Knives**

Tube cutters  
Saws, saw blades



**Cable stripping or lead tube knives**

with wooden handle



Art. No.	type	weight	PU
20 00 08	1 blade	45	12

**Cable stripping knives**

solid handle, shock-proof synthetic, blade with straight and rounded scraper



Art. No.	type	weight	PU
20 00 10	1 blade	70	12

**Cable stripping knives**

with black plastic scales, stainless blade with scraper



Art. No.	type	weight	PU
20 00 11	1 blade	100	12

**Cable stripping knives**

with wooden scales, blade with scraper



Art. No.	type	weight	PU
20 00 12	1 blade	80	12

**Cable stripping knives**

with wooden scales, blade and reamer



Art. No.	type	weight	PU
20 00 14	2 blades	75	12

**Cable stripping knives**

with wooden scales, blade, reamer and screwdriver



Art. No.	type	weight	PU
20 00 16	3 blades	80	12

**Cable stripping knives**

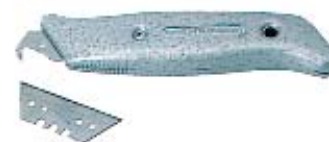
with plastic scales, 2 blade, reamer and screwdriver



Art. No.	type	weight	PU
20 00 18	4 blades	90	12

**Utility knives**

manufactured from zinc di-cast, with 4 straight blades and 1 hook blade



Art. No.	length	weight	PU
20 00 26	145	100	10
20 00 28	spare blades	hook form	10
20 00 30	spare blades	straight form	10

**Utility knives with spare blades**

Cutting of plastic, wallpaper, cardboards, leather, plywood, carpets, with automatic blades locking, to 8 kg of pressure load, reserve blade in the handle



Art. No.	weight	PU
20 00 27	80	12
20 00 32	spare blades	10

**Crown scissors**

bright nickel-plated, with serrated cutting edge, for very thin wires



Art. No.	length	weight	PU
20 00 58	115	25	12

## Hole cutting tin snips

with polished blade, carbon steel, right hand cutting



Art. No.	length	colour	weight	PU
20 01 40	250	green	520	5

## Curve and figure tin snips

with polished blade, right hand cutting, carbon steel HRc52 - 58



Art. No.	length	colour	weight	PU
20 01 54	260	green	455	5

## Small tube cutters

with 1 cutting wheel and dual roller guides



Art. No.	tube-Ø	Ø	weight	PU
20 01 90	3 - 16	1/8" - 5/8"	100	1
20 01 92	loose spare wheels 3 - 16	1/8" - 5/8"	5	10

## Tube cutters

with 1 cutting wheel and dual roller guides, retractable burr remover



Art. No.	length	tube-Ø	Ø	weight	PU
20 01 94	170	3 - 35	1/8" - 1 3/8"	415	1
20 01 96	loose spare wheels	3 - 35	1/8" - 1 3/8"	5	10

## Junior hacksaws

strong frame, nickel-plated



Art. No.	span capacity	weight	PU
20 02 80	150 mm	140	6

## Junior hacksaws DIN 6473 C

with hacksaws blade for metal



Art. No.	span capacity	weight	PU
20 02 84	150 mm	80	6

## Junior hacksaws

heavy type, with pistol type handle and hacksaw blade for metal



Art. No.	span capacity	weight	PU
20 02 85	150 mm	200	6

## Hand saws „PUK“

with hacksaws blade for metal, with fixed, varnished wooden handle



Art. No.	span capacity	weight	PU
20 02 90	150 mm	90	6

## Hand saws „PUK“

with adjustable, varnished wooden handle, in plastic bag



Art. No.	span capacity	weight	PU
20 02 92	150 mm	110	12

## Hacksaws „PUK“

DIN 6494C

for art. no. 20 02 92, 20 02 80, 20 02 90, 20 02 84, 22 02 85, 11 05 58



Art. No.	material	weight	PU
20 02 86	for wood	2	144
20 02 88	for metal	2	144



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**Hacksaws frames to DIN 6473 A**

heavy duty type, varnished, with captivated tensions pins



Art. No.	span capacity	MS	weight	PU
20 03 00	300	18 x 8	780	6

**Hacksaws frames**

steel pipe with flat oval section, bright chrome-plated, tension bolt made from steel



Art. No.	span capacity	MS	weight	PU
20 03 04	300	20 x 8	500	6

**Hacksaws blades to DIN 6494**

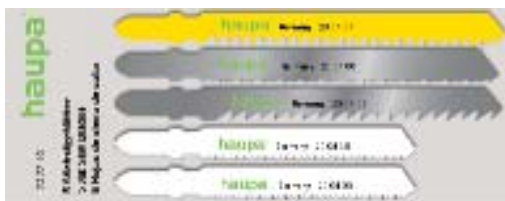
type A, single sided blade HSS-Bi-metal



Art. No.	material	size	no. of te.	weight	PU
20 03 10	HSS-Bi-metal	300 x 13 x 0,63	24	20	50

**Jig saw blades**

Card with 5 jig saw blades, 3x wood, 2x metal



Art. No.	weight	PU
20 04 01	225	1

**Jig saw blades**

for wood, plastic, 2,5 mm tooth pitch, blade conically ground, teeth diagonally sharpened



Art. No.	weight	PU
20 04 00	225	5-card

**Jig saw blades**

for wood, plastic, 4 mm tooth pitch, blade conically ground, teeth diagonally sharpened



Art. No.	weight	PU
20 04 02	225	5-card

**Jig saw blades**

for wood, plastic, 3 mm tooth pitch, side set teeth



Art. No.	weight	PU
20 04 04	225	5-card

**Jig saw blades**

Curved saw blade for wood, 4 mm tooth pitch, side set teeth, teeth diagonally sharpened



Art. No.	weight	PU
20 04 12	225	5-card

**Jig saw blades**

for metal, HSS, wavy set teeth, 1,2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 18	350	5-card

**Jig saw blades**

for metal, bi-metal, long blade life, wavy set teeth, 1,2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 03	350	5-card

**Jig saw blades**

for metal, HSS, wavy set teeth, 2 mm tooth pitch, for steel and sheet metals



Art. No.	weight	PU
20 04 05	350	5-card

## **Tool cases**

Hard top tool cases, Leather tool cases



### Metal tool boxes

5 compartments, complete black powder coating



Art. No.	length	width	height	weight	PU
22 00 80	430	215	200	4700	1
22 00 82	530	215	200	5720	1

### Assortement boxes

sheet steel, complete black powder coating



Art. No.	length	width	height	compart.	weight	PU
22 00 90	366	230	51	20	2400	1
22 00 91	350	170	46	5	2200	1
22 00 92	370	160	40	9	2300	1
22 00 93	400	250	50	13	2500	1

### Tool wallets

of black linen, with leather strap fastening



Art. No.	length	width	compart.	weight	PU
22 00 06	600	310	18	320	1

### Belt bag

made of sturdy cowhide leather, with 4 compartments and belt loops



Art. No.	length	width	compart.	weight	PU
22 33 46	250	150	4	144	1

width.....in mm  
weight.....weight in Gramm  
length.....total length in mm

height.....in mm  
length.....in mm  
PU.....packing unit in pieces

### Tool case „Tradition“ and „Fan“

made of black leather, with 2 inside loops and 2 snap-locks



Art. No.	length	width	height	weight	PU
22 00 22 Tradition	370	120	190	940	1
22 00 24 Fan	420	170	230	1890	1

### Tool case „Favorit - Admiral - Profi“

made of black leather, with galvanized floor-onset of sheet-metal collapsable front, with locks, side-, front-, rear-parts as well as bottom and cover reinforced, inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 60 Favorit	385	170	285	2250	1
22 00 64 Admiral	485	170	330	2850	1
22 00 66 Profi	430	170	270	2780	1

### Tool case „Achat“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 52	440	180	340	3200	1

### Tool case „Comet“

made of black leather, all outside edges reinforced with Alu-squares, with galvanized floor-onset of sheet-metal collapsable front, snap-fasteners riveted on side, side-loops for carrying-belts, 2 snap-locks, all 4 inside with tool-compartments and adjustable loops, without carrying belts



Art. No.	length	width	height	weight	PU
22 00 70	430	180	320	4200	1



## Tool case „Novelle 1“

Tool case for electrical contractor, made of black neat's, leather, with 26 tools. Case 22 00 66 (430 x 170 x 270 mm)

Contents:

- 3 Electrician's screwdrivers 75, 125, 150 mm
- 2 Eng. screwdrivers 100, 150 mm
- 2 Cross slotted screwdrivers PH size1 and PH size2
- 2 Cross slotted screwdrivers PZ size1 and PZ size2
- Piercing awls
- Voltage tester 150 - 250 V
- Voltage tester Elektro-check
- Wire stripping pliers 0,5 - 4 mm<sup>2</sup>
- Paint scraper 50 mm
- Engineers' hammer 300 g
- Cable knife 1 pieces
- Knife 8 - 28 mm
- Universal scissors 190 mm
- PUK junior saw
- 2C combination pliers 185 mm
- 2C diagonal cutter 135 mm
- 2C heavy duty diagonal cutter 175 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers 240 mm
- 2K-Wire stripping pliers, chromium-plated



Art. No.	set	length	width	height	weight	PU
22 01 52/1	26-pieces	430	170	270	6410	1

## Tool case „Alpha“

Tool case made from black neat's leather, equipped with 20 tools.

Case 22 00 60 (385 x 170 x 285 mm). Contents:

- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C telephone pliers 200 mm
- 5 VDE elekt.-screwdrivers EN 60900 2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- 2 VDE cross slotted screwdrivers EN 60900, PH size 1 and PH size 2
- Voltage tester VDE/GS
- Wire stripping pliers 0,5 - 4 mm<sup>2</sup>
- Black Line cable knife 8 - 28 mm ø
- Cable knife 1-pieces
- PUK pocket saw
- Electricians' chisel 10 x 250 mm
- Stone chisel 250 mm
- Engineers' hammer 300 g
- Measuring Tape 2 m
- Cabinet Level 250 m



Art. No.	set	length	width	height	weight	PU
22 01 69	20-pieces	385	170	285	6410	1

## Tool case „Start“

Tool case for apprentices, made from black cow hide equipped with 21 tools, case 22 00 60 (385 x 170 x 285 mm).

Contents:

- 2C telephone pliers 170 mm
- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C wire stripping pliers 165 mm
- 5 VDE electrician's screwdrivers 2,5 x 75 mm 3 x 100, 4 x 100, 5,5 x 125, 6,5 x 150 mm
- VDE cross slotted screwdrivers, size 1
- VDE cross slotted screwdrivers, size 2
- Cable knife, 1-pieces
- PUK pocket saw
- 1 Brush
- 1 Electricians' chisel 10 x 250 mm
- 1 Voltage tester - blade 50 mm
- 1 Stone chisel 300 mm
- 1 Engineers' hammer 300 g
- 1 Double-face sledge hammer 1000 g
- 1 Spatula 40 mm
- 1 Plaster container



Art. No.	set	length	width	height	weight	PU
22 01 68	21-pieces	385	170	285	6430	1

## HAUPA „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base.

Comes complete with 23 tools.

Features:

Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, size: 32 x 19 x 28 cm (L x W x H), colour: green, black

- 2C combination pliers 200 mm
- 2C diagonal cutter 165 mm
- 2C chain-nose cutting pliers straight
- 2C wire stripping pliers 165 mm
- VDE-screwdriver set EN 60900, 7 electrician's screwdrivers
- Voltage tester
- Wire stripper with hooked blade
- Water brush
- Paint scraper 40 mm
- Electrician's chisel 10 x 250 mm
- Stone chisel 300 mm
- Engineers' hammer 300 g
- Double-face lump hammer 1000 g
- Plaster container
- Cable knife 1-pieces
- PUK junior saw with rigid handle
- Carpenter's pencil



Art. No.	set	length	width	height	weight	PU
22 05 00	23-pieces	320	190	280	6430	1

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### Tool case „Saphir“

Tool case for electrical contractor, made of green neat's leather, with 33 tools. Case 22 00 70 (430 x 180 x 320 mm) Contents:

• 2C round nose plier	175 mm
• 2C telephone pliers	200 mm
• 2C combination pliers	185 mm
• 2C diagonal cutter	150 mm
• 2C wire stripping pliers	165 mm
• Electronic side cutter	110 mm
• 2C water pump pliers	240 mm
• 4 Electrician's screwdrivers	75, 100, 125, 150 mm, insulated
• 3 Eng. screwdrivers	125, 150, 175 mm, insulated
• 4 Cross slotted screwdrivers	PH size 1, PH size 2, PZ size 1, PZ size 2
• 4 Electronic side cutter	5,5/12/13/17 mm
• Piercing awls	round
• Allen key set	SW 2 - SW 10
• Voltage tester	150 - 250 Volt
• Electronic screwdriver	150 mm
• Engineers' hammer	300 g
• Cable knife	8 - 28 mm
• Cable knife	1-pieces
• Universal scissors	190 mm
• Cable shears for coax cable	
• PUK pocket saw	
• Rule	2 m



Art. No.	set	length	width	height	weight	PU
22 01 54	33-pieces	430	180	320	7410	1

### Brass pad locks

body made from a solid brass block, hardened steel shackle, with 2 keys



Art. No.	size	weight	PU
22 01 10	30	110	10
22 01 12	40	170	10

### Carrying belts

of green leather, 2 spring hooks



Art. No.	weight	PU
22 00 54	120	1

width.....in mm  
weight.....weight in Gramm  
length.....total length in mm

height.....in mm  
length.....in mm  
PU.....packing unit in pieces

### Tool case „Phoenix“

Tool case for electrical contractor, made of black neat's leather, with 44 tools. Case 22 00 70 (430 x 180 x 320 mm) Contents:

• 2C round nose plier	175 mm
• 2C telephone pliers	200 mm
• 2C combination pliers	185 mm
• 2C diagonal cutter	150 mm
• 2C wire stripping pliers	165 mm
• Electronic side cutter	110 mm
• Electronic pliers	140 mm
• 2C water pump pliers	240 mm
• Crimping pliers	1,5 - 6 mm <sup>2</sup>
• Tweezer	130 mm
• 4 Electrician's screwdrivers	75, 125, 150, 175 mm, insulated
• 3 Eng. screwdrivers	100, 125, 150 mm, insulated
• 4 Cross slotted screwdrivers	PH size 1, PH size 2, PZ size 1, PZ size 2
• Eng. screwdriver	75 mm
• 4 Electronic side cutter	5,5/12/14/17 mm
• Piercing awls	round
• Allen key set	SW 2 - SW 10
• Voltage tester	150 - 250 Volt
• Electronic screwdriver	150 mm
• Electronic screwdriver	size 1
• C.t. wrench	310 mm
• Cable knife	8 - 28 mm
• Cable knife	3-pieces
• Universalmesser	
• Universal scissors	190 mm
• Cable cutter for coax	
• PUK pocket saw	fester Griff
• Elektrikermeißel	10 x 250 mm
• Engineers' hammer	300 g
• Rule	2 m
• Level	400 mm



Art. No.	set	length	width	height	weight	PU
22 01 56	42-pieces	430	180	320	8250	1

### Tool cases „Tool bag“

Tool bag with inner and outer tool compartments, rubber-reinforced base. Waterproof and dirt resistant, rubber-reinforced base, double cross-seam for heavy loads, removable shoulder strap, adjustable, 10 compartments outside (various sizes), 10 compartments inside (various sizes), belt for spirit level (outside), material: extra strong 600D polyester, size: 32 x 19 x 28 cm (L x W x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 00 61	320	190	280	5000	1

### HAUPA Belt bag "Tool belt"

8 compartments for your tools, reinforced main compartment, steel rivets for high reliable quality. Big front compartment for nails or measurement tape, hammer sleeve, fits up to 135 cm hips, material: extra strong 600D polyester, size: 20 x 10 x 30 cm (L x B x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 01 05	200	100	300	1500	1

### HAUPA "Big Box"

very big box look alike Tool bag, easy approach to the tools, inside and outside compartments for tools, reinforced handles, material: extra strong 600D polyester, size: 40 x 24,5 x 23 cm (L x B x H), colour: green, black



Art. No.	length	width	height	weight	PU
22 00 95	400	245	230	5000	1

### Tool case „Aktion“

2 tool kits (one with document pocket), Ground bowl with variables to pdividing bars



Art. No.	length	width	height	weight	PU
22 00 38	460	160	310	5500	1

### Tool case „Omega“

rigid case, black, 28 compartments, 1 combination lock, 1 separation for documents, 2 plate for tools, 2 lockable locks, Ground bowl with variables to pdividing bars, running around push border



Art. No.	length	width	height	weight	PU
22 00 68	460	180	310	5500	1

### Tool case „Merkur“

rigid case, made of ABS-plastic material, black, empty, excellent rib-profile on the outside, high-quality locks, inside with separation for documents, 2 plates with compartments for several tools, 1 tray of ABS-plastics with separations for individual divisions. Inside Measurement: 460 x 180 x 310 mm



Art. No.	length	width	height	weight	PU
22 00 34	460	180	310	5500	1

### Tool case „Rolly“

rigid case, made of ABS-plastic material, black, integrated rolls and pull-out handle in the bottom, locks of alu-press-casting, empty inside: 1 separation for documents, 1 plate for tools, 1 cover-plate with pocket compartments and clip-compartment, 1 bottom-tray



Art. No.	length	width	height	weight	PU
22 00 36	485	380	220	4950	1

### Network service case HAUPA

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes Internal dimensions: 460 x 140 x 310



Art. No.	length	width	height	weight	PU
22 00 73	460	160	310	5500	1

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## Tool case „Inspektor“

rigid case, black, Master's case with 25 tools.  
Case 22 00 68 (460 x 180 x 310 mm). Contents:

- 3 Electrician's screwdrivers 75, 125, 150 mm
- 2 Eng. screwdrivers 100 und 150 mm
- 2 Cross slotted screwdrivers size1 und size2
- Piercing awls kantige Klinge
- Voltage tester 150 - 250 V
- C.t. wrench 160 mm
- Paint scraper 50 mm
- Electricians' Chisel 10 x 250 mm
- Engineers' hammer 300 g
- Cable knife 1-pieces
- Knife 8 - 28 mm
- Universal scissors 190 mm
- PUK junior saw
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers
- 2C wire stripping pliers
- Rule 2 m
- Alu level 400 mm



Art. No.	set	length	width	height	weight	PU
22 01 76	25-pieces	460	180	310	9170	1

## Network-Servicecase

Hard-top case, black, for electricians and network technicians, 2 tool kits (one with document pocket), bottom half of case contains 8 small removable boxes, secured for transport purposes. Internal dimensions: 460 x 140 x 310 mm  
Case 22 00 73 (25 pieces). Contents:

- 3 Electronics screwdriver's 60 x 2,0, 60 x 2,5, 60 x 3,0 mm
- 2 Electronics cross slotted screwdrivers Ph size 00 and size Ph 0
- 3 Black Line electrician's screwdrivers 75 x 3, 100 x 4 and 150 x 5 mm
- 3 Black Line cross slotted screwdrivers Ph size 0, 1 and 2
- 2C telephone pliers 170 mm
- 2C telephone pliers, bent 200 mm
- crimping pliers for unshielded modular plugs
- pressing pliers for RG 58-59-62-6 coaxial connectors
- universal switch cabinet spanner (metal)
- electronics side-cutting pliers for wire diameters up to 1.3 mm²
- 2C diagonal cutter 165 mm
- Universal scissors 190 mm
- PC strip AWG 6 - 26
- Precision strip AWG 20 - 30
- Stripper for coax cable
- Sensor tool LSA Plus
- PUK junior
- Voltage tester 100 - 250 V



Art. No.	set	length	width	height	weight	PU
22 01 41	25-pieces	460	160	310	8800	1

## Network service case „Connect“

The perfect Starter package for data and network. Hart-top case, black, 2 tool kits, bottom half of case contains removeable boxes, 13 tools.  
Case 22 00 38 (460 x 160 x 310 mm).

Contents:

- 2C electrician's screwdrivers 75 x 2,5 mm
- 2C electrician's screwdrivers 100 x 3,0 mm
- 2C electrician's screwdrivers 125 x 4,0 mm
- 2C cross slotted screwdrivers size 1 - insulated
- 2C cross slotted screwdrivers size 2 - insulated
- Electricians scissors, bright nickel-plated, 130mm
- Strippers for UTP-/STP-datacable
- 2C diagonal cutter 160 mm
- 2C telephone pliers, bent 200 mm
- Crimping pliers for unshielded modular plugs 6-pole
- Crimping pliers for unshielded modular plugs 8-pole
- Elektronic-side cutting pliers
- Sensor tool LSA Plus



Art. No.	set	length	width	height	weight	PU
22 01 50	13-pieces	460	160	310	7800	1

## Tool case „Basic“

Hard-top case, black, 2 tool kits (one with document pocket), bottom half of case equipped with variable partitions, 19 tools.

Case 22 00 38 (460 x 160 x 310 mm) Contents:

- 5 VDE electrician's screwdrivers EN 60900  
2,5 x 75, 3 x 100, 4 x 100, 5,5 x 125 und 6,5 x 150 mm
- 2 VDE cross slotted screwdrivers EN 60900 PH size 1 and PH size 2
- 2C combination pliers 185 mm
- 2C diagonal cutter 165 mm
- 2C telephone pliers 200 mm
- 2C wire stripping pliers 165 mm
- Black Line cable knife 8 - 28 mm Ø
- Cable knife 1-pieces
- Engineers' hammer 300 g
- PUK pocket saw
- Electricians' chisel 10 x 250 mm
- Voltage tester blade 50 mm
- Measuring stick 2 m
- Paint scraper 40 mm



Art. No.	set	length	width	height	weight	PU
22 01 53	19-pieces	460	160	310	8600	1

## Tool case „Akkurat“

Master's case for radio and television, with 34 tools, rigid case.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 2 Pliers form B and form C
- 2 x 2C telephone pliers straight and bent
- 2C combination pliers 180 mm
- 2C diagonal cutter 160 mm
- 2C wire stripping pliers 160 mm
- Electronic side cutter 110 mm
- Electronic front cutter 140 mm
- Electronic round nose pliers 115 mm
- Tweezer, straight 130 mm
- Tweezer, flat 145 mm
- Eng. screwdrivers 150 mm
- 2 x Cross slotted screwdrivers PH size 1 and PH size 2
- 5 x Electrician's screwdrivers 75 mm (2 x), 100 mm, 125 mm, 150 mm
- 4 x Nut drivers 3,5 mm, 4,0 mm, 5,0 mm, 6,0 mm
- Piercing awls round
- Voltage tester 50-250 Volt
- Checking mirror 210 mm
- Claw holder size 525
- Watchmaker's screwdriver
- Spanner 175 mm
- Universal scissors 190 mm
- Crown scissors 115 mm
- Solder 100g
- Contact file set



Art. No.	set	length	width	height	weight	PU
22 01 79	34-pieces	460	180	310	9980	1

## Tool case "2 Component"

Hard-top case, for apprentices, black, 2 tool kits, one with document pocket, cover-plate with pocket compartments and clip-compartment, 18 tools.

Case 22 00 38 (460 x 160 x 310 mm)

- 2C telephone pliers, straight 200 mm
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C wire stripping pliers 160 mm
- 4 x 2C electrician's screwdrivers 2,5 x 75 mm, 3 x 100 mm, 5,5 x 125 mm, 6,5 x 150 mm
- 2 x 2C cross slotted screwdrivers, size 1/size 2
- Cable knife, 1-pieces
- Knife, 8 - 28 mm, standard
- PUK pocket saw
- Paint scraper 40 mm
- Electricians' Chisel 10 x 250 mm
- Voltage tester 220 - 250 Volt
- Engineers' hammer 300 g
- Rule 2 m



Art. No.	set	length	width	height	weight	PU
22 01 70	18-pieces	460	160	310	7800	1

## Tool case „Diamant“

Master's case for domestic appliances, with 24 tools, rigid case, black.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 2C flat nose pliers, Langbeck 160 mm
- 2C round nose pliers 160 mm
- 2C telephone pliers, bent 200 mm
- 2C combination pliers 160 mm
- 2C diagonal cutter 140 mm
- HAUPA-Wire stripping pliers 0,5 - 4 mm<sup>2</sup>
- Electronic side cutter 110 mm
- 2C water pump pliers 240 mm
- Crimping pliers 1,5 - 6 mm<sup>2</sup>
- 2 x Eng. screwdrivers 100 mm / 150 mm
- 2 x Cross slotted screwdrivers PH size 1 / PH size 2
- 2 x Electrician's screwdrivers 100 mm / 150 mm
- Allen key set, 8-pieces SW 2,5 - 10 mm
- Voltage tester 150 - 250 V
- Socket set 33-pieces
- Universal cable knife
- Cable knife
- Universal scissors
- Junior saw PUK
- Engineers' hammer 300 g
- Solder 100 g



Art. No.	set	length	width	height	weight	PU
22 01 92	24-pieces	460	180	310	14200	1



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## The ideal tool assortment

rigid case for electromaster, with 36 tools.

Case 22 00 68 (460 x 180 x 310 mm) Contents:

- 4 x Electrician's screwdrivers 60, 75, 125, 150 mm
- 2 x Eng. screwdrivers 100, 150 mm
- 3 x Cross slotted screwdrivers PH size 0, PH size 1, PH size 2
- Eng. screwdriver 125 mm
- Claw holder size 165
- Watchmaker's screwdriver
- Piercing awls
- 3 x Nut drivers 7 - 8 and 10 mm
- Voltage tester 150 - 250 Volt
- Checking mirror size 210
- Socket set 33-pieces
- Electronic solder 100 g
- Contact soldering iron 30 Watt
- Engineers' hammer 300 g
- Cable knife 1-pieces
- Crown shear 115 mm
- Universal scissors 140 mm
- Junior saw heavy
- 2C combination pliers 180 mm
- 2 x 2C diagonal cutter 140 mm / 160 mm
- Pliers 115 mm
- 2 x 2C telephone pliers 160 mm / 200 mm
- 2 x 2C water pump pliers insulated
- Wire stripping pliers 0,5 - 4 mm
- Tweezer bent 120 mm
- Tweezer straight 115 mm



Art. No.	set	length	width	height	weight	PU
22 01 77	36-pieces	460	180	310	9980	1

## Tool case „Merkur Plus“

rigid case, black, Master's case with 25 tools.

Case 22 00 34 (460 x 180 x 310 mm). Contents:

- 3 x Electrician's screwdrivers 75, 125, 150 mm
- 2 x Eng. screwdrivers 100, 150 mm
- 2 x Cross slotted screwdrivers PH size 1 and PH size 2
- Universal scissors 190 mm
- Cable knife 1-pieces
- Knife 8 - 28 mm
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C telephone pliers, bent 200 mm
- 2C water pump pliers insulated
- 2C wire stripping pliers
- PUK junior saw
- Electricians' chisel 10 x 250 mm
- Rule 2 m
- Alu level 400 mm
- Piercing awls
- Voltage tester 150 - 250 V
- C.t. wrench 160 mm
- Engineers' hammer 300 g
- Paint scraper 50 mm



Art. No.	set	length	width	height	weight	PU
22 00 35	25-pieces	460	180	310	9980	1

## Tool case „Panther“

Inside: 1 separation for documents, 2 plate for tools, 1 cover-plate with pocket compartments and clip-compartment

Case 22 00 38 (460 x 180 x 310 mm) Contents:

- 4 x Electrician's screwdrivers 75 x 3, 100 x 4, 125 x 4, 150 x 5 mm
- Eng. screwdrivers 100 x 6 mm
- 2 x Cross slotted screwdrivers PZ size 1 and PZ size 2
- 2C combination pliers 180 mm
- 2C heavy duty diagonal cutter 180 mm
- 2C telephone pliers 200 mm
- 2C wire stripping pliers
- Engineers' hammer 300 g
- Voltage tester
- 2-pole Voltage tester
- Spirit level for switch cupboard with magnet
- Spanner for switch-cabinets
- Slotter chisel
- Electrician's chisel
- Knife
- Junior hacksaw with pistol-type handle
- Black Line Cable knife



Art. No.	set	length	width	height	weight	PU
22 00 40	22-pieces	460	180	310	8900	1

**You can find more tool cases in this catalogue in "Working under tension" from page 119.**



**Drilling tools**

Measuring tools, Cutting blades  
Lasersystems

## Twist drills DIN 338/HSS type N

point angle 118°, spiral angle 25 - 35°, Ø-tolerance h 8, of HSS, for drilling of steel, steel-casting alloyed and unalloyed up to approx. 900 N/mm<sup>2</sup> strength grey- and tempered casting, sinter iron, newsilver, graphit, alu-alloy, bronze and brass

### Packing units:

individual in bag/10 pc.

in carton PB and R:

- up to 10mm Ø in paper bags á 10 pcs
- from 10,2 mm Ø in paper bags á 5pcs



Art. No.	Ø	core-hole	length	tot. length	weight	PU
23 00 10	0,5		6	22	0,04	1
23 00 10/PB						
23 00 10/R						
23 00 20	1		12	34	0,2	1
23 00 20/PB						
23 00 20/R						
23 00 30	1,5		18	40	0,56	1
23 00 30/PB						
23 00 30/R						
23 00 32	1,6	M 2	20	43	0,7	1
23 00 32/PB						
23 00 32/R						
23 00 40	2		24	49	1,15	1
23 00 40/PB						
23 00 40/R						
23 00 50	2,5	M 3	30	57	2	1
23 00 50/PB						
23 00 50/R						
23 00 60	3		33	61	3	1
23 00 60/PB						
23 00 60/R						
23 00 64	3,2		36	65	4	1
23 00 64/PB						
23 00 64/R						
23 00 66	3,3	M 4	36	65	4	1
23 00 66/PB						
23 00 66/R						
23 00 70	3,5		39	70	4	1
23 00 70/PB						
23 00 70/R						
23 00 80	4		43	75	6	1
23 00 80/PB						
23 00 80/R						
23 00 84	4,2	M 5	43	75	7	1
23 00 84/PB						
23 00 84/R						
23 00 90	4,5		47	80	8	1
23 00 90/PB						
23 00 90/R						
23 01 00	5	M 6	52	86	10	1
23 01 00/PB						
23 01 00/R						
23 01 10	5,5		57	93	13	1
23 01 10/PB						
23 01 10/R						
23 01 20	6	M 7	57	93	16	1
23 01 20/PB						
23 01 20/R						
23 01 30	6,5		63	101	19	1
23 01 30/PB						
23 01 30/R						

Art. No.	Ø	core-hole	length	tot. length	weight	PU
23 01 36	6,8	M 8	69	101	22	1
23 01 36/PB						
23 01 36/R						
23 01 40	7		69	109	24	1
23 01 40/PB						
23 01 40/R						
23 01 60	8		75	117	32	1
23 01 60/PB						
23 01 60/R						
23 01 70	8,5	M 10	75	117	39	1
23 01 70/PB						
23 01 70/R						
23 01 80	9		81	125	46	1
23 01 80/PB						
23 01 80/R						
23 01 90	9,5		81	125	54	1
23 01 90/PB						
23 01 90/R						
23 02 00	10		87	133	62	1
23 02 00/PB						
23 02 00/R						
23 02 04	10,2	M 12	87	133	63	1
23 02 04/PB						
23 02 04/R						
23 02 10	10,5		87	133	70	1
23 02 10/PB						
23 02 10/R						
23 02 20	11				78	1
23 02 20/PB						
23 02 20/R						
23 02 30	11,5		94	142	86	1
23 02 30/PB						
23 02 30/R						
23 02 40	12	M 14	101	151	94	1
23 02 40/PB						
23 02 40/R						
23 02 44	12,5				107	1
23 02 44/PB						
23 02 44/R						
23 02 50	13		101	151	115	1
23 02 50/PB						
23 02 50/R						

### Technical information:

industrial quality, dressed to size from solid material, high true tuning precision, long tool life, drills separate packet in plastic bags or as a set in a box.

/PB as beside, but packet in paper bags

/R: workshop quality, wheeled milled, drills packet in paper bag or as a set in a box

a-range...adjusting range

bar .....in mm

CC-Ø .....cutting capacity in mm<sup>2</sup>

cross section .....in mm<sup>2</sup>

CTh.....cutting thickness (mm)

CW.....cutting width in mm

height.....in mm

length.....in mm

lob .....length of blade mm

M .....for screws M

Ø .....in mm

PU.....packing unit in pieces

size .....in mm

sth .....steel thickness in mm

th .....thickness in mm

th. of jaw.....thickness of jaw (mm)

tot. length.....in mm

weight .....in mm

## Twist drills DIN 338/HSS type N

made from high power steel,  
in metal pocket



smoothed

rollmilled

Art. No.	set	drill-Ø	rising	weight	PU
23 03 12	19	1 - 10	0,5	800	1
23 03 12/R	19	1 - 10	0,5	800	1
23 03 14	25	1 - 13	0,5	1500	1
23 03 14/R	25	1 - 13	0,5	1500	1

## Bulk storage chest for twist drills

HSS, DIN 338, 170 pieces, TYP N, short, ground,  
bright, with split point, TIN coated

Content: 1,0 - 10,0 mm (upstairs in 0,5 mm steps)  
up to 8,0 mm 10 pieces/size  
> 8,5 mm 5 pieces/size



Art. No.	set	PU
23 03 01/TIN	170-pieces	1

## Drill bit sets DIN 338/HSS type N

made from high power steel, in plastic pocket



smoothed

rollmilled

Art. No.	set	drill-Ø	rising	weight	PU
23 03 02	19	1 - 10	0,5	420	1
23 03 02/R	19	1 - 10	0,5	420	1

## Drill type machine bits for wood

made from carbon steel, concentrically ground, with centre point and front cutter



Art. No.	drill-Ø	length	weight	PU
23 06 16	3	70	3	10
23 06 18	4	80	5	10
23 06 20	5	90	8	10
23 06 22	6	100	15	10
23 06 26	8	120	30	10
23 06 28	9	130	40	10
23 06 30	10	137	50	10
23 06 32	11	150	65	10
23 06 34	12	155	80	10
23 06 36	13	170	85	10

## Flat bits

with flat cutter head, square shank, DIN 6447 A



Art. No.	drill-Ø	shank	length	weight	PU
23 07 32	10	6	150	35	12
23 07 34	12	6	150	35	12
23 07 36	14	6	150	38	12
23 07 38	16	6	150	38	12
23 07 40	18	6	150	45	12
23 07 42	20	6	150	45	12
23 07 46	24	6	150	45	12

## Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 03 30	3	70	40	7	10
23 03 31	3,5	75	45	8	10
23 03 32	4	80	45	10	10
23 03 34	4,5	85	50	11	10
23 03 36	5	90	50	13	10
23 03 38	5,5	95	55	15	10
23 03 40	6	100	60	18	10
23 03 42	6,5	105	65	22	10
23 03 44	7	110	65	27	10
23 03 46	8	120	70	37	10
23 03 48	8,5	125	80	43	10
23 03 52	10	140	90	50	10
23 03 54	11	150	95	82	10
23 03 56	12	160	105	90	10
23 03 58	13	170	110	100	10
23 03 60	14	180	115	120	10
23 03 62	15	190	125	165	10
23 03 64	16	190	125	165	10

## Masonry drills sets

carbide tipped in plastic pocket



Art. No.	set	drill-Ø	weight	PU
23 06 42	5-pieces	4 - 5 - 6 - 8 - 10	130	6

## Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 03 70	8	400	300	110	1
23 03 72	10	400	300	185	1
23 03 74	12	400	300	240	1
23 03 76	14	400	300	310	1
23 03 78	16	400	300	425	1
23 03 80	18	400	300	550	1
23 03 82	20	400	300	680	1

## Masonry drills DIN 8039

carbide tipped, with straight shank, each piece in plastic pocket



Art. No.	Ø	length	cut. length	weight	PU
23 04 00	8	600	500	170	1
23 04 02	10	600	500	280	1
23 04 04	12	600	500	300	1
23 04 06	14	600	500	440	1
23 04 08	16	600	500	625	1
23 04 10	18	600	500	800	1
23 04 12	20	600	500	1025	1
23 04 14	22	600	500	1135	1

## SDS hammer drill bits 10 mm Ø

**Top quality:** SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system



Art. No.	drill-Ø	length	cut. length	weight	PU
23 04 30	5	110	50	42	1
23 04 31	5	160	100	365	1
23 04 32	5,5	110	50	45	1
23 04 33	5,5	160	100	365	1
23 04 34	6	110	50	46	1
23 04 36	6	160	100	52	1
23 04 38	6,5	110	50	40	1
23 04 38 B	6,5	160	100	365	1
23 04 40	7	110	60	48	1
23 04 38 A	7	160	100	50	1
23 04 42	8	110	50	52	1
23 04 42 A	8	160	100	50	1
23 04 44	8	210	150	71	1
23 04 44 A	8	460	400	365	1
23 04 48	10	160	100	68	1
23 04 50	10	210	145	108	1
23 04 50 A	10	260	150	100	1
23 04 51	10	460	400	155	1
23 04 78/1	10	600	540	365	1
23 04 52	11	260	75	70	1
23 04 54	12	160	100	77	1
23 04 53	12	210	540	365	1
23 04 56	12	260	200	115	1
23 04 57	12	460	400	250	1
23 04 59	12	600	550	315	1
23 04 58	13	160	85	90	1
23 04 60	14	160	100	110	1
23 04 60 A	14	260	200	250	1
23 04 61	14	460	400	300	1
23 04 67	14	615	550	365	1
23 04 62	15	160	100	365	1
23 04 64	16	210	150	195	1
23 04 66	16	450	400	355	1
23 04 73	16	600	550	450	1
23 04 70	18	200	150	240	1
23 04 75	18	450	400	420	1
23 04 74	20	200	150	240	1
23 04 74 A	20	300	240	365	1
23 03 95	20	460	400	365	1
23 03 96	20	600	550	600	1
23 03 97	22	450	400	550	1
23 03 98	25	450	400	750	1

## SDS-Nut-hammer drill sets

7-pieces



Art. No.	Contents	weight	PU
23 04 79	5, 6, 8 x 110 6, 8, 10, 12 x 160	700	1

## SDS hammer drill bits

**Workshop quality:** SDS-Plus fast fitting system: 2 lengthwise slots and 2 round slots at the end of the shank. Universal tool fitting for different types of hammer drills according to the SDS-Plus system..



Art. No.	drill-Ø	length	PU
23 09 00	5	110	1
23 09 02	5	160	1
23 09 04	5,5	110	1
23 09 06/1	5,5	160	1
23 09 08	6	110	1
23 09 10	6	160	1
23 09 12	6,5	110	1
23 09 14	6,5	160	1
23 09 16	7	110	1
23 09 18	7	160	1
23 09 20	8	110	1
23 09 22	8	160	1
23 09 24	8	210	1
23 09 26	10	160	1
23 09 28	10	210	1
23 09 30/1	10	260	1
23 09 32	10	450	1
23 09 34	10	600	1
23 09 36	11	260	1
23 09 38	12	160	1
23 09 40	12	210	1
23 09 42	12	310	1
23 09 44	12	450	1
23 09 46	12	600	1
23 09 48	13	160	1
23 09 50	14	160	1
23 09 52	14	260	1
23 09 54/1	14	450	1
23 09 56	14	600	1
23 09 58	15	160	1
23 09 60	16	210	1
23 09 62/1	16	450	1
23 09 64	16	600	1
23 09 66	18	200	1
23 09 68	18	450	1
23 09 70	20	210	1
23 09 72	20	310	1
23 09 74	20	450	1
23 09 76	22	450	1
23 09 78	25	450	1

## Screw extractor set



Art. No.	size	weight	PU
23 06 82	1 - 5/M 3 - 18	175	10
23 06 83	1 - 6/M 3 - 24	200	10

## Hand taps DIN 352, type N/HSS

set of 3, for ISO metric thread to DIN, 1, 2, 3-cutter, made of HSS, for pass-through threading, for good chipping steel up to approx. 900 N/mm<sup>2</sup>



Art. No.	thread	rising	□	shank Ø	weight	PU
23 08 00	M 1	0,25	2,1	2,5	1	1
23 08 02	M 1,4	0,3	2,1	2,5	1	1
23 08 04	M 1,6	0,35	2,1	2,5	2	1
23 08 06	M 1,8	0,35	2,1	2,5	2	1
23 08 08	M 2	0,4	2,1	2,8	2	1
23 08 10	M 2,2	0,4	2,1	2,8	2	1
23 08 12	M 2,5	0,45	2,1	2,8	2	1
23 08 14	M 3	0,5	2,7	3,5	3	1
23 08 16	M 3,5	0,6	3	4	4	1
23 08 18	M 4	0,7	3,4	4,5	4	1
23 08 20	M 4,5	0,75	4,3	5,5	5	1
23 08 22	M 5	0,8	4,9	6	9	1
23 08 24	M 6	1	4,9	6	11	1
23 08 26	M 7	1	4,9	6	12	1
23 08 28	M 8	1,25	4,9	6	14	1
23 08 30	M 9	1,25	5,5	7	17	1
23 08 32	M 10	1,5	5,5	7	20	1
23 08 34	M 11	1,5	6,2	8	25	1
23 08 36	M 12	1,75	7	9	36	1
23 08 38	M 14	2	9	11	52	1
23 08 40	M 16	2	9	12	62	1
23 08 42	M 18	2,5	11	14	102	1
23 08 44	M 20	2,5	12	16	125	1
23 08 46	M 22	2,5	14,5	18	182	1
23 08 48	M 24	3	14,5	18	205	1
23 08 50	M 27	3	16	20	260	1
23 08 52	M 30	3,5	18	22	370	1
23 08 54	M 33	3,5	20	25	480	1
23 08 56	M 36	4	22	28	645	1
23 08 58	M 39	4	24	32	820	1
23 08 60	M 42	4,5	24	32	930	1
23 08 62	M 45	4,5	29	36	1140	1
23 08 64	M 48	5	29	36	1370	1
23 08 66	M 52	5	32	40	1650	1
23 08 68	M 56	5,5	35	45	2800	1
23 08 70	M 60	5,5	35	45	2900	1

## HSS taps "Direct cutter"

with intermittent teeth, dimensions to DIN 371, or ISO metric thread to DIN 13.



Art. No.	thread	rising	shank	weight	PU
23 09 82	M 4	0,7	4,5	4	1
23 09 84	M 5	0,8	6,0	8	1
23 09 86	M 6	1,0	6,0	10	1
23 09 88	M 8	1,25	6,0	12	1

## Ratchet wrenches

for right-hand and left-hand action



23 10 70-72



23 10 74-76

Art. No.	size	shank	length	thread	weight	PU
23 10 70	1	2,4 - 5,5	85	M 3 - 9	185	1
23 10 72	2	4,5 - 7	100	M 9 - 12	360	1
23 10 74	1	2,4 - 5,5	250	M 3 - 9	285	1
23 10 76	2	4,5 - 7	300	M 5 - 12	465	1

## HSS taps sets

with taps to DIN 352, in metal box, contents:  
M3, M 4, M 5, M 6, M 8, M 10, M 12



Art. No.	weight	PU
23 10 80	770	1

## Combi, threading bit set, made of HSSG SGE-Bit (DBGM)

for drilling, threading and countersinking, for stand drilling machines and hand drills, suitable for steel and NE metal up to 1 xd (M 6 = 6 mm thickness of material), up to 600 N/mm<sup>2</sup> tensile strength, rpm according to the cutting speeds of the tride, in metal box



Art. No.	Contents	weight	PU
23 10 82	M 3, 4, 5, 6, 8, 10	250	1

## Adjustable tap wrenches DIN 1814

for taps



Art. No.	size	length	thread	weight	PU
23 10 50	0	2,1 - 4,9	M 1 - 8	50	1
23 10 52	1	2,1 - 5,5	M 1 - 10	95	1
23 10 54	1 1/2	2,1 - 7,0	M 1 - 12	130	1
23 10 56	2	3,8 - 7,0	M 4 - 12	280	1
23 10 58	3	4,9 - 12,0	M 5 - 21	700	1
23 10 60	4	5,5 - 16,0	M 9 - 27	1270	1
23 10 62	5	7,0 - 20,0	M 12 - 33	1630	1
23 10 64	6	12,0 - 24,0	M 19 - 38	4520	1

## HSS Tap sets

Contents:

hand tap (DIN 352) M 3, 4, 5, 6, 8, 10, 12  
Dies (DIN 223) M 3, 4, 5, 6, 8, 10, 12,  
Dies stock 20 x 5/20 x 7/25 x 9/30 x 11/38 x 14 mm  
tape holder size 1 + 2, in metal box



Art. No.	set	weight	PU
23 12 80	23-pieces	3700	1

## HSS Tap sets

Contents:

Hand tap (DIN 352) M 5, 6, 8, 10, 12, 14, 16, 18, 20  
Dies (DIN 223) M 5, 6, 8, 10, 12, 14, 16, 18, 20  
Dies holder  
20 x 7/25 x 9/30 x 11/38 x 14/45 x 18 mm  
Tap holder size 1 + 3, in metal box



Art. No.	set	weight	PU
23 12 82	25-pieces	8200	1

## Cone drills/Aerial drills/HSS

for edgefree drilling of thin material



Art. No.	Ø mm	shank	weight	PU
23 13 00	3 - 14	6,0	21	1
23 13 01	6 - 20	8,0	47	1
23 13 30	6 - 22,5	8,0	50	1
23 13 02	16 - 30	10,0	128	1
23 13 04	26 - 40	12,0	260	1
23 13 05	6 - 30	10,0	260	1
23 13 06	36 - 50	12,0	350	1
23 13 07	46 - 60	13,0	510	1

## Set of cone drills/HSS

4 pieces, in metal box, 1 piec each No. 1, 2, 3 (Ø 3 - 30 mm),  
plus paste, suitable for NE material, soft steel sheet,  
similar to ST 14 - 37, Nirosta steel sheet A 2,  
for duro or thermo plastic



Art. No.	set	size	Ø	weight	PU
23 13 12	4-pieces	1 - 3	3 - 30	585	1

a-range...adjusting range	cross section...in mm <sup>2</sup>	height.....in mm	M .....for screws M	size .....in mm	th. of jaw.....thickness of jaw (mm)
bar .....in mm	CTH.....cutting thickness (mm)	length.....in mm	Ø .....in mm	sth .....steel thickness in mm	tot. length.....in mm
CC-Ø .....cutting capacity in mm <sup>2</sup>	CW.....cutting width in mm	lob .....length of blade mm	PU.....packing unit in pieces	th .....thickness in mm	weight .....in mm



## Combination step drills/HSS

for **metric PG rough thread-through-hole and core-hole-drillings**,  
6 drilling diameters for core-hole with 5 mm step for sheet metal up to  
max. 6 mm  
through-hole: 8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm  
core-hole: 10,5 (M12) - 14,5 (M16) - 18,5 (M20) - 23,5 (M25) -  
30,5 (M32) - 38,5 (M40)



Art. No.	weight	PU
23 13 19	150	1

## Step drills /HSS

Special type for electric assembly, for sheet metal up to max. 4 mm gauge,  
for metric thread through-hole drilling,  
8,5 - 12,5 - 16,5 - 20,5 - 25,5 - 32,5 - 40,5 mm



Art. No.	weight	PU
23 13 24	205	1

## Step drills /HSS

thickness up to max. 6 mm, for **metric** core-hole-drilling,  
8,5 - 10,5 - 14,5 - 18,5 - 23,5 - 30,5 mm



Art. No.	weight	PU
23 13 26	160	1

## Step drills/HSS

special type for electric assembly, for sheet steel up to 4 mm thickness,  
for amoured conduit thread sizes



Art. No.	drill-Ø	weight	PU
23 13 20	PG 7 - 29	205	1
23 13 22	PG 7 - 21	135	1

## Step drills/HSS

for amoured conduit core removing hole sizes up to 6 mm thickness



Art. No.	drill-Ø	weight	PU
23 13 23	PG 7 - 21	150	1

## Step drills/HSS

for mechanical engineering and tinsmith working, with 2 cutters, metric



Art. No.	drill-Ø	shank	rising	weight	PU
23 13 36	4 - 12	6	1	17	1
23 13 38	12 - 20	9	1	60	1
23 13 40	20 - 30	12	1	190	1
23 13 42	30 - 40	12	1	385	1
23 13 50	4 - 12	6	2	17	1
23 13 52	4 - 20	8	2	50	1
23 13 54	6 - 30	10	2	153	1

## Step drills assortment/HSS

4 pieces, for mechanical engineering and tinsmith working,  
with 2 cutters

Contents: Ø 4 - 12 mm, Ø 12 - 20 mm, Ø 20 - 30 mm, paste



Art. No.	set	size	weight	PU
23 13 27	4-pieces	4 - 30	650	1

## Drilling paste

high quality drilling paste, in practical container, 17 g



Art. No.	weight	PU
23 13 34	40	1

# INFO

## Rotary guide value for step drills/cone drills

Material	unleg. Baustahl < 700 N/mm² Mild steel < 700 N/mm²	unleg. Baustahl > 700 N/mm² Mild steel > 700 N/mm²	leg. Stahl 1000 N/mm² Alloy steel 1000 N/mm²	Gußeisen < 250 N/mm² Cast iron < 250 N/mm²	Gußeisen > 250 N/mm² Cast iron > 250 N/mm²	Edelstahl rostfrei Stainless steel	CuZn Leg. spröde CuZn alloy brittle	CuZn Leg. zäh CuZn alloy tough	AL Leg. bis 11% Si Alloy steel < 11% Si	Thermo- plaste Thermo plastic	Duro- plaste Duro plastic	Holz Wood
Materialstärke Material gauge	5,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	3,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	5,0 mm	25,0 mm
Bohrpaste Lubricant	X	X	X	X	X	X	X	X	X	X	X	X
m / min	20 - 25 U/min r.p.m	16 - 20 U/min r.p.m	10 - 16 U/min r.p.m	12 - 25 U/min r.p.m	8 - 12 U/min r.p.m	5 - 12 U/min r.p.m	20 - 25 U/min r.p.m	16 - 20 U/min r.p.m	10 - 16 U/min r.p.m	12 - 25 U/min r.p.m	8 - 12 U/min r.p.m	40 - 100 U/min r.p.m
Ø mm												
4,0 - 12,0	1900 - 600	1500 - 500	1500 - 500	1190 - 400	800 - 230	500 - 300	2700 - 930	2390 - 800	1990 - 550	1590 - 450	1190 - 340	3000 - 1000
4,0 - 20,0	1900 - 400	1500 - 320	1500 - 320	1190 - 240	800 - 160	400 - 250	2700 - 560	2390 - 480	1990 - 400	1590 - 320	1190 - 240	2800 - 1000
12,0 - 20,0	1330 - 250	1060 - 250	1060 - 250	800 - 190	530 - 130	400 - 250	1860 - 450	1590 - 380	1330 - 320	1060 - 250	800 - 190	2000 - 800
4,0 - 24,0	1330 - 250	1060 - 250	1060 - 250	800 - 190	530 - 130	400 - 250	1860 - 450	1590 - 380	1330 - 320	1060 - 250	800 - 190	2000 - 800
6,0 - 30,0	1900 - 250	1500 - 250	1500 - 250	1190 - 190	800 - 130	400 - 250	2700 - 3700	2390 - 320	1990 - 270	1590 - 210	1190 - 160	1500 - 800
20,0 - 30,0	1330 - 250	1060 - 250	1060 - 210	800 - 190	530 - 130	150 - 80	1860 - 370	1590 - 320	1330 - 270	1060 - 210	800 - 160	1500 - 800
6,0 - 36,0	1330 - 250	1060 - 250	1060 - 210	800 - 190	530 - 130	100 - 60	1860 - 370	1590 - 320	1330 - 270	1060 - 210	800 - 160	1500 - 800
30,0 - 40,0	1000 - 200	900 - 160	900 - 130	800 - 130	530 - 80	80 - 40	1860 - 280	1590 - 240	1330 - 200	1060 - 130	800 - 100	600 - 200

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## Spare screws

Spare screws for screw punches



Art. No.	screws M	weight	PU
18 05 30	10 x 1	60	1
18 05 32	12 x 1,5	60	1
18 05 34	16 x 1,5	60	1

## Screw punches

**matching for metric cable connection acc. the new Euro-Norm EN 50262**, with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness



Art. No.	size	hole-Ø (mm)	weight	PU
18 05 13	16	16,5	185	1
18 05 15	20	20,5	230	1
18 05 17	25	25,5	350	1
18 05 19	32	32,5	400	1
18 05 21	40	40,5	950	1
18 05 23	50	50,5	1300	1
18 05 25	63	63,5	1600	1

## Screw punches

with 3 cutting edges for iron sheet up to 2 mm, steel sheet up to 1,5 mm, stainless-steel sheet up to 1,5 mm thickness



Art. No.	size PG	hole-Ø	screws		max. thickness	weight	PU
			M				
18 05 00	9	15	10 x 1		1,5	80	1
18 05 02	11	19	10 x 1		1,5	150	1
18 05 04	13,5	21	10 x 1		1,5	165	1
18 05 06	16	22,5	10 x 1		1,5	185	1
18 05 08	21	29	10 x 1		1,5	250	1
18 05 10	29	37	10 x 1		1,5	400	1
18 05 12	30,5	-	10 x 1		1,5	400	1
18 05 14	36	47	12 x 1,5		1,75	800	1
18 05 16	42	54	16 x 1,5		2,0	1250	1
18 05 18	48	60	16 x 1,5		2,0	1300	1
18 05 20	1 1/8"	29	10 x 1		1,5	250	1

## Hollow core cutters

for tungsten carbide tipped, with centre bit and hexagon shank, 12 mm



Art. No.	Ø	length	mm	no. of te.	weight	PU
23 06 61	68	80	12	6	1100	1
23 06 65	82	80	12	6	1100	1

## Centre bits with tungsten carbide tipped cutting edge

for tungsten carbide tipped hollow core cutters



Art. No.	Ø	length	weight	PU
23 06 80	9	120	40	1

## Hollow core cutters

tungsten carbide tipped, with centre bit and SDS shank  
\* coned shank



Art. No.	Ø	length	no. of te	weight	PU
23 06 67*	68	80	6	1100	1
23 06 75*	82	80	6	1100	1

## Taps for armoured steel conduits, metric thread



Art. No.	thread	weight	PU
14 02 36	M 16 x 1,5	40	1
14 02 38	M 20 x 1,5	60	1
14 02 40	M 25 x 1,5	90	1
14 02 42	M 32 x 1,5	120	1
14 02 44	M 40 x 1,5	150	1
14 02 46	M 50 x 1,5	230	1
14 02 48	M 63 x 1,5	600	1

## Adjustable tap wrenches

short pattern



Art. No.	for taps		weight	PU
	PG	inch		
14 01 80	7 - 21	1/8 - 3/4"	7 - 25	850
14 01 82	11 - 48	1/2-2 1/2"	32 - 63	1900

## Nipple threading dies

with guide, replaceable dies and taps



Art. No.	thread	weight	PU
14 01 90	M 10	100	1
14 01 92	M 13	130	1

## Nipple threading dies

with guide, replaceable dies and tap



Art. No.	thread	weight	PU
14 02 10	M 10, M 13	220	1

## Diamond hollow core cutters

hard-soldered, turned of full material, suitable for hard materials as well as for stone/brick works and artifical stones, thread M 16, without shank and centre bit, **laser-welded**



Art. No.	Ø	weight	PU
23 06 76	68	450	1
23 06 77	82	550	1

## Shank for hollow core cutters

SDS-Plus-shank, M16, connection thread



Art. No.	length	weight	PU
23 06 81	100 mm	150	1

## Shank for hollow core cutters, SDS-Plus

SDS-Plus-shank, conic



Art. No.	length	weight	PU
23 06 81 K	100 mm	150	1

## Shank for hollow core cutters, SW 12

shank M 16, for centre bits, cylinder



Art. No.	weight	PU
23 06 78	150	1

## Drill for Diamond hollow core cutters

cylindric shank



Art. No.	Ø	length	weight	PU
23 06 79	9	120	40	1

## Diamond hollow core cutters

shank M 16, for centre bits, hexagon fitting, **laser-welded**



Art. No.	Ø	weight	PU
23 06 76 K	68	640	1
23 06 77 K	82	740	1

# INFO

## Diamond cutting blades

Suitable for: pumice, gas concrete, medium and soft limesand stone, gypsum boards, mortar, clinker, plaster, artificial stone and soft sandstone.

Further for: flooring-plaster, concrete, concretestone, pantile of concrete, hard sandstone, granite, porphyry (short/low working time).

## Diamond cutting blades

**laser-welded**, high diamond concentration, long life, for the professional works, DSA 5215



Art. No.	Ø	bore-Ø	weight	PU
23 06 89	115	22,2	100	1
23 06 91	125	22,2	150	1
23 07 20	135 (for FUBAG)	30,0	200	1
23 07 21	140 (for FLEX)	22,2	250	1
23 07 04	150	22,2	200	1
23 07 05	180	22,2	400	1
23 07 06	230	22,2	700	1
23 07 11	300	22,2	1100	1

## Diamond cutting blades

sintered, continuous rim. universal application, DSA 5262



Art. No.	Ø	bore-Ø	weight	PU
23 07 01	115	22,2	100	1
23 07 02	125	22,2	100	1
23 07 08	180	22,2	400	1
23 07 09	230	22,2	700	1

## Diamond cutting blades

sintered, continuous rim. universal application, granite, tiles, ceramics, stone- and marble-flatters, DSA 3071



Art. No.	Ø	bore-Ø	weight	PU
23 07 14	115	22,2	200	1

## Diamond cutting blades

sintered, continuous rim. universal application, DSA 5418



Art. No.	Ø	bore-Ø	weight	PU
23 07 22	115	22,2	200	1
23 07 23	125	22,2	200	1
23 07 25	230	22,2	800	1

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## Cutting discs

approved acc. DSA



Art. No.	w-range	dimension	weight	PU
14 08 00	metal	115 x 2,5 x 22	50	10
14 08 02	metal	125 x 2,5 x 22	100	10
14 08 04	metal	180 x 3,0 x 22	150	10
14 08 06	metal	230 x 3,0 x 22	250	10
14 08 10	stone	115 x 2,5 x 22	50	10
14 08 12	stone	125 x 2,5 x 22	100	10
14 08 16	stone	230 x 3,0 x 22	200	10
14 08 22	Schrupp metal	125 x 6,0 x 22	250	10
14 08 26	Schrupp metal	180 x 8,0 x 22	300	10
14 08 30	Schrupp metal	230 x 8,0 x 22	350	10

## Carbide tipped hollow saws with border senk D 68

Ø 68 mm, total length 175 mm, multi purpose hole saw for turning operation suitable for plastic, tiles up to hardness 6 and plaster material, set consisting of hole saw D 68, shank SW 11, carbide-tipped centre bit



Art. No.	Ø	length	weight	PU
23 06 99	68	175	650	1

## Hollow saws

with shank M16, of Bi-metal, set toothing, tooth pitch alternating from 4,2 to 6,3 mm, long tool life, suitable for metall, wood and plastics.



Art. No.	Ø	weight	PU
23 18 00	22	45	1
23 18 02	25	55	1
23 18 04	29	60	1
23 18 06	32	72	1
30 05 00	35	86	1
23 18 10	40	100	1
23 18 12	51	110	1
23 18 14	57	152	1
30 05 01	68	200	1
23 18 18	76	248	1
23 18 20	79	260	1

## Centre drill



Art. No.	Ø	weight	PU
30 05 60	6,35	90	1

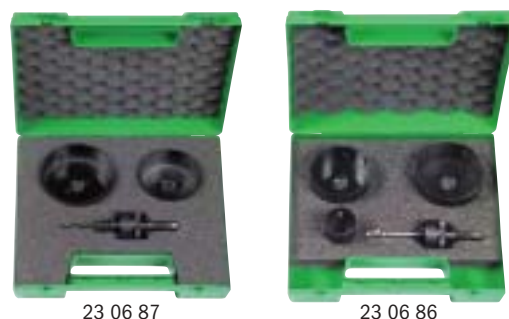
## Shank for hollow saw



Art. No.	weight	PU
23 06 85	290	1

## HSS-BI-Hole saw assortment

For fast and exact holes metal, wood inter-effected with nails, ply wood, fibre boards, plastic, pipe, boards and asbestos. Re-milleable, for operation in hand- and stand drilling machines, combi-toothing, Ø 35/68/75 mm, with arbor and bit, set of 2 or 3 pieces



Art. No.	Set		weight	PU
23 06 87	2-pieces	combi-toothing, Ø 68/82 mm	900	1
23 06 86	3-pieces	combi-toothing, Ø 35/68/75 mm	1000	1

## Folding rules

wood, with spring joint, mm-graduations on both sides



Art. No.	length m	width	strength	weight	PU
24 00 02	2	16	3,0	120	10

## Measuring tapes

with spring steel tapes, case: plastic, with automatic return motion and locking key, tape with stove-enamel finished



Art. No.	length m	width	weight	PU
24 00 10	2	13	90	12
24 00 11	3	13	90	12
24 00 12	5	16	90	12

## Measuring tapes

in metal case, with woven rayon tape, strengthened against stretching by 8 bronze wires woven into tape, scale graduations both sides: metres and centimetres



Art. No.	length m	width	weight	PU
24 00 18	20	16	500	1
24 00 20	25	16	600	1
24 00 22	30	16	660	1
24 00 24	50	16	1050	1

## Aluminium spirit levels

bubble level made of acrylic glass,  
accuracy of measurement:  $0,043^\circ = 0,75 \text{ mm/m}$



Art. No.	length	width	height	weight	PU
24 00 41	300	20	57	320	1
24 00 42	400	20	57	340	1
24 00 44	600	20	57	480	1
24 00 46	800	20	57	530	1
24 00 48	1000	20	57	620	1

## Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. No.	length	width	height	weight	PU
24 00 57	400	24	52	200	1
24 00 58	600	24	52	250	1

## Cabinet levels

Torped type, nonconducting plastic material, with 3 tubes horizontal, vertical and  $45^\circ$



Art. No.	length	width	height	weight	PU
24 00 59	250	20	40	100	1

## Torped-level

with 3 tubes horizontal, vertical and  $45^\circ$



Art. No.	length	weight	PU
24 00 60	225	300	1

## Gauges

steel, nickel-plated, in plastic bag



Art. No.	length	width	height	weight	PU
24 00 62	95	35	3	75	1

## Precision pocket vernier calipers „Stainless“

manufactured from stainless steel, completely hardened, with measuring nibs, depth gauge and thread tables, in plastic wallet,  $1/20''$  or  $1/128 \text{ mm}$ , size 140 mm



Art. No.	weight	PU
24 00 71	170	1

## Engineers' squares

manufactured from steel, bright



Art. No.	size mm	width	strength	weight	PU
24 01 32	150 x 100	20	5	170	1
24 01 34	200 x 130	20	5	235	1
24 01 36	250 x 160	25	5	370	1
24 01 38	300 x 180	25	5	590	1

## Engineers' squares

manufactured from steel, bright



Art. No.	size mm	width	strength	weight	PU
24 01 52	150 x 100	20	5	170	1
24 01 54	200 x 130	20	5	235	1
24 01 56	250 x 160	25	5	370	1
24 01 58	300 x 180	25	5	440	1
24 01 60	400 x 230	30	5	680	1

## Steel point scribers

knurled handle, replaceable screw-out hardened points, handle with one straight and one bent point ( $90^\circ$ ).



Art. No.	length	weight	PU
24 02 34	250	50	10



**haupa**

...because quality matters

## Construction stand

In sturdy light metal, weight only approx. 4 kg, 105 cm long, extensible to 160 cm, including stand plate, to take LaserBoy II and Drixlaser.



Art. No.	weight	PU
24 00 45	4000	1

## Rotary Laser

The new Rotary Laser has been designed as a sturdy instrument for the production of metre lines and vertical lines in interior building construction. Its advantages are that there are enormous savings in time and costs. Without requiring the help of any other person, complicated measurement and checking work can be carried out in seconds. A simple and secure eccentric clamp on the adjustment plate makes it possible to quickly clamp the rotary laser in a horizontal or vertical position.

The set consists of:

- 1 Rotary laser
- 1 Adjustment plate
- 1 Battery charger
- 1 Transport case



pic. with acc. laser eye

Art. No.	weight	PU
24 00 77	1300	1

## Stand with sliding telescope

With this stand, suitable for universal use, the operator can comfortably and precisely set the desired operating height. Maximum operating height: 1.45 m, mounting thread: 5/8"



Art. No.	weight	PU
24 00 78	6500	1

## Laser eye

In bright surroundings or at great distances, the laser eye makes it possible to determine the position of the laser beam. The laser eye is a valuable aid when working in extremely bright surroundings and/or outside.



Art. No.	weight	PU
24 00 79	250	1