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NON SPARKING TOOLS



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BAHCO NON SPARKING TOOLS



The range of BAHCO Non Sparking (NS) tools has been designed for use in potentially explosive environments, where “traditional” steel tools may create sparks. The potential risk of fire and explosion is caused by the presence of combustible or easily ignitable vapours, liquids and dust common in Petrochemical, Mining and similar industries. For these industries, safety is paramount and NS tools are essential. OSHA (Occupational Safety and Health Administration) has developed best practice guidelines for certain chemicals and processes which includes the use of non-sparking tools.

Non-ferrous materials such as brass, bronze, copper-aluminum alloys (aluminum bronze), or copper-beryllium alloys (beryllium bronze) reduce the risk of sparks - these softer materials greatly reduce the risk of producing ignitable sparks. The Bahco range of NS tools are manufactured in aluminum-bronze (Al-Br) or copper-beryllium (Cu-Be), meaning they are both safe and suitable for such hazardous environments.

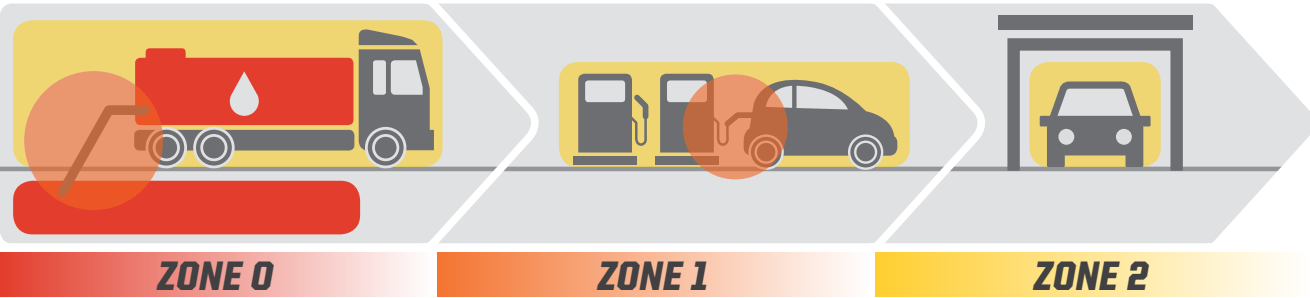
Our range of Bahco NS tools are produced according to the international standards of DIN and ISO in terms of dimensions, cutting capacity, and strength, with hardness being adapted to the purpose of the tool. Tools used for striking applications, like slogging wrenches and hammers, are manufactured in aluminum-bronze (Al-Br), whereas tools that require a higher torque and precision performance, such as pliers, screwdrivers and adjustable wrenches, are manufactured in copper-beryllium (Cu-Be).

MATERIALS	CU-BE				AL-BR			
	Be	Co+Ni	Co+Ni+Fe	Cu	Al	Ni	Fe+Mn	Cu
	1,5-1,7%	over 0,2%	below 1,2%	balance	10-12%	4-6%	below 5,8%	balance
HARDNESS (Brinell)	283-365				221-291			
TENSILE STRENGTH (N/mm2)	1117-1326				782-989			
ELASTICITY LIMIT (N/mm2)	840-880				450-550			
MAGNETIC PROPERTIES	0				1,2			

ATEX classified zones are environments with a potentially explosive atmosphere (“ATmosphères EXplosibles”). Within the EU there are two directives that cover these areas:
1999/92/CE Directive: covers the safety of the people employed in the installation, operation and maintenance of facilities at risk of explosions.
94/9/CE Directive: harmonises legal provisions for devices and protection systems for designated use in potentially explosive areas.

From July 1st, 2003 it is mandatory to assess all explosion risk areas according to ATEX 1999, and all electrical and mechanical equipments have to comply with the ATEX 94. However, hand tools are not in the scope of the 94/9/EC directive but as we are passionate about safety we have our range of Bahco NS tools certified by the independent German Laboratory called BAM (the German Federal Institute for Materials Research and Testing).

Division into zones. EX zones refers to areas at risk of explosions according to the frequency and duration of the emergence of hazardous, explosive atmospheres.
Zone definition below is in accordance with the 1999/92/EC Directive.



ZONE		EXPLOSIVE ATMOSPHERE PRESENCE IN TIME	
GAS	POWDER		
0	20	More than 1000 hours a year	In this zone you don't stay
1	21	Between 10 and 1000 hours a year	Loading and unloading zone
2	22	Between 6 minutes and 10 hours a year	Normal operating condition

GUARANTEE
NS tools cannot reach the hardness of conventional tools and for this reason the use of NS tools has to be carried out with special care. Avoid overstraining and heating, and a frequent visual check of the tool is recommended.
NS tools will be replaced under guarantee only when the hardness of the damaged tool does not reach (or exceed) the hardness indicated in our catalogue. AL-BR ➔ 20-30 HRC, CU-BE ➔ 30-40 HRc

- SAFETY**
- NS tools must not be the only preventive measure in such hazardous environments for which the tools are specifically designed for. For a comprehensive protection of both people and facilities, follow relevant safety guidelines:
- Do not use both a steel tool and non-sparking tool at the same time.
 - Do not use high copper content tools, of which both Al-Br and Cu-Be tools are, in direct contact with acetylene.
 - Considerable precision and care must always be taken when reworking copper-beryllium (Cu-Be) tools as beryllium (Be) dust or vapour is toxic.
 - Cu-Be tools should be ground only wet.
 - Do not inhale any dust (wear a face mask).

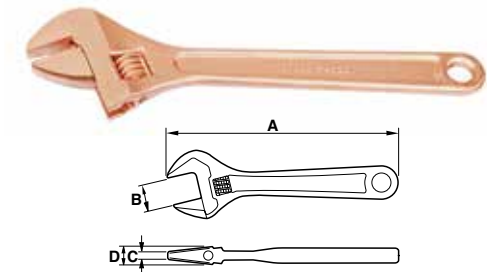
- NOTES OF USE**
- Make sure all NS tools are kept clean and free from ferrous or other contaminants which may hamper the properties of the non-sparking tool.
 - The tool's surface temperature must not be more than the present gases temperature.
 - Be sure that no objects fall down in the working environment which could cause a spark. As a precaution you should sprinkle the floor.

WRENCHES



NON SPARKING ADJUSTABLE WRENCH

- Adjustable wrench, suitable for different sizes of fasteners by adjusting the jaw
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Die-forged
- Produced according to ISO 6787

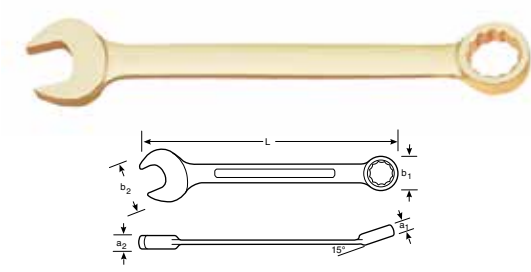


				mm	mm	mm	mm
NSB001-150	7314150292509	1	135	12,2	8	18	150
NSB001-200	7314150284689	1	281	14,8	9	24	200
NSB001-250	7314150284696	1	440	17,1	10,6	30	250
NSB001-300	7314150284702	1	720	18,8	11,2	36	300
NSB001-375	7314150292516	1	1410	23,4	13,7	46	375
NSB001-450	7314150292523	1	2261	26,7	15	55	450
NSB001-600	7314150292530	1	4705	36	25	65	600
NSB001-900	7314150292547	1	10000	36	26	75	900



NON SPARKING COMBINATION WRENCH

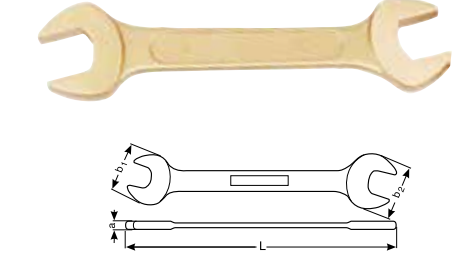
- Combination wrench, both ends fit the same size of bolts and nuts
- Material: Aluminium Bronze
- Die-forged
- Produced according to DIN 3113



				mm	mm	mm	mm	mm	mm
NS002-6	7314150292554	1	16	11,6	14	4,4	6	105	6
NS002-7	7314150292561	1	40	14,5	17,5	5	7	120	7
NS002-8	7314150292578	1	40	14,5	17,5	5	7	120	8
NS002-9	7314150292585	1	42	18	22	5,4	8	135	9
NS002-10	7314150284719	1	42	18	22	5,4	8	135	10
NS002-11	7314150292592	1	60	21	26,5	6	9	150	11
NS002-12	7314150292608	1	60	21	26,5	6	9	150	12
NS002-13	7314150284726	1	82	23	30	6,6	10	175	13
NS002-14	7314150284733	1	82	23	30	6,6	10	175	14
NS002-15	7314150292615	1	125	27	35	7,6	11	195	15
NS002-16	7314150292622	1	125	27	35	7,6	11	195	16
NS002-17	7314150284740	1	125	27	35	7,6	11	195	17
NS002-18	7314150292639	1	165	31	39	8	12	215	18
NS002-19	7314150284757	1	165	31	39	8	12	215	19
NS002-20	7314150292646	1	165	31	39	8	12	215	20
NS002-21	7314150292653	1	260	36	46	9,4	14	245	21
NS002-22	7314150292660	1	260	36	46	9,4	14	245	22
NS002-23	7314150292677	1	290	38	49	10	15,2	265	23
NS002-24	7314150292684	1	290	38	49	10	15,2	265	24
NS002-25	7314150292691	1	290	38	49	10	15,2	265	25
NS002-26	7314150292707	1	455	42	56	11,4	17	290	26
NS002-27	7314150284764	1	455	42	56	11,4	17	290	27
NS002-28	7314150292714	1	455	49	56	11,4	17	290	28
NS002-29	7314150292721	1	635	49	61	13	20	320	29
NS002-30	7314150292738	1	635	49	61	13	20	320	30
NS002-31	7314150292745	1	710	52	65	14	21	340	31
NS002-32	7314150284771	1	710	52	65	14	21	340	32
NS002-33	7314150292752	1	710	52	65	14	21	340	33
NS002-34	7314150292769	1	910	55	72	15	21	360	34
NS002-35	7314150292776	1	910	55	72	15	21	360	35
NS002-36	7314150284788	1	910	55	72	15	21	360	36
NS002-38	7314150292783	1	1310	64	82	15	21	430	38
NS002-40	7314150292790	1	1240	64	82	15	21	430	40
NS002-41	7314150292806	1	1190	64	82	15	21	430	41
NS002-42	7314150292813	1	1150	64	82	15	21	430	42
NS002-46	7314150292820	1	1590	70	90	16	22	480	46
NS002-50	7314150292837	1	1830	70	98	17	23	520	50
NS002-52	7314150292844	1	1830	77	98	17	23	520	52
NS002-55	7314150292851	1	1810	83	108	18	23	560	55
NS002-60	7314150292868	1	2640	89	115	20	25	595	60
NS002-65	7314150292875	1	3110	95	125	21	27	595	65
NS002-70	7314150292882	1	3730	112	142	24	29	630	70
NS002-75	7314150292899	1	3620	112	142	24	29	630	75
NS002-80	7314150292905	1	4880	120	158	26	31	660	80

NON SPARKING DOUBLE OPEN END WRENCH

- Open end wrench, for tightening of two different sizes of bolts and nuts
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 895



				mm	mm
NS006-0607	7314150292912	1	22	92	6x7
NS006-0608	7314150292929	1	22	92	6x8
NS006-0708	7314150292936	1	22	92	7x8
NS006-0709	7314150292943	1	25	96	7x9
NS006-0809	7314150292967	1	38	105	8x9
NS006-0810	7314150292950	1	31	100	8x10
NS006-0910	7314150292974	1	38	105	9x10
NS006-0911	7314150292981	1	45	110	9x11
NS006-1011	7314150292998	1	47	115	10x11
NS006-1012	7314150293001	1	55	120	10x12
NS006-1013	7314150293018	1	60	122	10x13
NS006-1014	7314150293025	1	62	124	10x14
NS006-1113	7314150293032	1	65	125	11x13
NS006-1114	7314150293049	1	65	125	11x14
NS006-1213	7314150293056	1	67	128	12x13
NS006-1214	7314150293063	1	69	130	12x14
NS006-1315	7314150293070	1	85	135	13x15
NS006-1415	7314150293087	1	105	143	14x15
NS006-1416	7314150293094	1	105	143	14x16
NS006-1417	7314150293100	1	110	150	14x17
NS006-1617	7314150293117	1	120	157	16x17
NS006-1618	7314150293124	1	130	163	16x18
NS006-1719	7314150293131	1	135	170	17x19
NS006-1722	7314150293148	1	150	175	17x22
NS006-1819	7314150293155	1	180	179	18x19
NS006-1820	7314150293162	1	190	182	18x20
NS006-1920	7314150293179	1	190	182	19x20
NS006-1922	7314150293186	1	200	185	19x22
NS006-1924	7314150293193	1	210	190	19x24
NS006-2022	7314150293209	1	225	195	20x22
NS006-2122	7314150293216	1	225	195	21x22
NS006-2123	7314150293223	1	235	200	21x23
NS006-2223	7314150293230	1	250	205	22x23
NS006-2224	7314150293247	1	285	210	22x24
NS006-2227	7314150293254	1	292	215	22x27
NS006-2326	7314150293261	1	302	220	23x26
NS006-2425	7314150293278	1	305	225	24x25
NS006-2426	7314150293285	1	305	225	24x26
NS006-2427	7314150293292	1	310	230	24x27
NS006-2430	7314150293308	1	330	233	24x30
NS006-2528	7314150293315	1	330	236	25x28
NS006-2629	7314150293322	1	385	245	26x29
NS006-2729	7314150293339	1	385	245	27x29
NS006-2730	7314150293346	1	430	250	27x30
NS006-2732	7314150293353	1	549	255	27x32



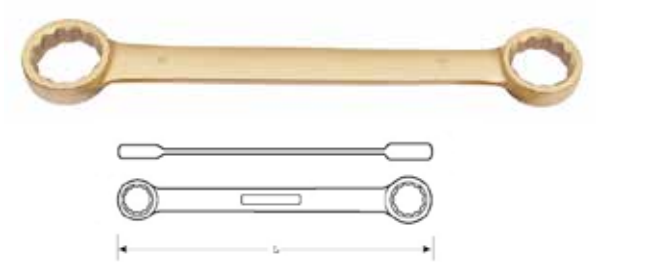
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NS006-2830	7314150293360	1	540	260	28x30
NS006-3031	7314150293377	1	540	260	30x31
NS006-3032	7314150293384	1	540	265	30x32
NS006-3034	7314150293391	1	540	265	30x34
NS006-3036	7314150293407	1	730	270	30x36
NS006-3234	7314150293414	1	730	270	32x34
NS006-3235	7314150293421	1	765	285	32x35
NS006-3236	7314150293438	1	800	300	32x36
NS006-3335	7314150293445	1	800	300	33x35
NS006-3436	7314150293452	1	800	300	34x36
NS006-3536	7314150293469	1	1000	315	35x36
NS006-3638	7314150293476	1	1210	330	36x38
NS006-3641	7314150293483	1	1210	330	36x41
NS006-3642	7314150293490	1	1300	340	36x42
NS006-4146	7314150293506	1	1430	355	41x46
NS006-4650	7314150293513	1	1850	370	46x50
NS006-5052	7314150293520	1	1900	380	50x52
NS006-5055	7314150293537	1	1950	385	50x55
NS006-5060	7314150293544	1	2275	400	50x60
NS006-5062	7314150293551	1	2300	405	50x62
NS006-5560	7314150293568	1	2450	415	55x60
NS006-6065	7314150293575	1	3600	435	60x65
NS006-6570	7314150293582	1	3600	450	65x70

WRENCHES



NON SPARKING DOUBLE END FLAT RING WRENCH

- Ring wrench, for tightening of two different sizes of bolts and nuts, ideal where space is limited
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 837



			
NS010-0607	7314150293599	1	6x7
NS010-0709	7314150293605	1	7x9
NS010-0809	7314150293612	1	8x9
NS010-0911	7314150293629	1	9x11
NS010-1011	7314150293636	1	10x11
NS010-1012	7314150293643	1	10x12
NS010-1214	7314150293650	1	12x14
NS010-1315	7314150293667	1	13x15
NS010-1417	7314150293674	1	14x17
NS010-1618	7314150293681	1	16x18
NS010-1719	7314150293698	1	17x19
NS010-1722	7314150293704	1	17x22
NS010-1819	7314150293711	1	18x19
NS010-1921	7314150293728	1	19x21
NS010-1922	7314150293735	1	19x22
NS010-2022	7314150293742	1	20x22
NS010-2123	7314150293759	1	21x23
NS010-2224	7314150293766	1	22x24
NS010-2427	7314150293773	1	24x27
NS010-2528	7314150293780	1	25x28
NS010-2628	7314150293797	1	26x28
NS010-2730	7314150293803	1	27x30
NS010-2732	7314150293810	1	27x32
NS010-3032	7314150293827	1	30x32
NS010-3036	7314150293834	1	30x36
NS010-3236	7314150293841	1	32x36
NS010-3641	7314150293858	1	36x41
NS010-4146	7314150293865	1	41x46
NS010-4650	7314150293872	1	46x50

NON SPARKING OPEN END SLOGGING WRENCH

- Slogging open end wrench, used with a hammer to tighten large bolts and nuts
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 133



			
NS100-17	7314150293889	1	17
NS100-19	7314150293896	1	19
NS100-22	7314150293902	1	22
NS100-24	7314150293919	1	24
NS100-25	7314150293926	1	25
NS100-27	7314150293933	1	27
NS100-28	7314150293940	1	28
NS100-29	7314150293957	1	29
NS100-30	7314150293964	1	30
NS100-32	7314150293971	1	32
NS100-33	7314150293988	1	33
NS100-34	7314150293995	1	34
NS100-35	7314150294008	1	35
NS100-36	7314150294015	1	36
NS100-37	7314150294022	1	37
NS100-38	7314150294039	1	38
NS100-41	7314150294046	1	41
NS100-42	7314150294053	1	42
NS100-45	7314150294060	1	45
NS100-46	7314150294077	1	46
NS100-47	7314150294084	1	47
NS100-50	7314150294091	1	50
NS100-52	7314150294107	1	52
NS100-54	7314150294114	1	54
NS100-55	7314150294121	1	55
NS100-56	7314150294138	1	56
NS100-58	7314150294145	1	58
NS100-60	7314150294152	1	60
NS100-63	7314150294169	1	63
NS100-65	7314150294176	1	65
NS100-67	7314150294183	1	67
NS100-70	7314150294190	1	70
NS100-71	7314150294206	1	71
NS100-75	7314150294213	1	75
NS100-77	7314150294220	1	77
NS100-80	7314150294237	1	80
NS100-82	7314150294244	1	82
NS100-85	7314150294251	1	85
NS100-88	7314150294268	1	88
NS100-90	7314150294275	1	90
NS100-94	7314150294282	1	94
NS100-95	7314150294299	1	95
NS100-100	7314150294305	1	100
NS100-105	7314150294312	1	105
NS100-110	7314150294329	1	110
NS100-115	7314150294336	1	115
NS100-120	7314150294343	1	120

NON SPARKING RING END SLOGGING WRENCH, METRIC

- Slogging ring wrench, used with a hammer to tighten large bolts and nuts
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 7444



							
NS104-17	7314150294350	1	190	32	12	145	17
NS104-19	7314150294367	1	180	32	12	145	19
NS104-20	7314150294374	1	225	38	13	155	20
NS104-22	7314150294381	1	220	38	13	155	22
NS104-24	7314150284795	1	210	42	14	165	24
NS104-25	7314150294398	1	210	42	14	165	25
NS104-26	7314150294404	1	315	46	16	175	26
NS104-27	7314150284801	1	315	46	16	175	27
NS104-28	7314150294411	1	315	46	16	175	28
NS104-29	7314150294428	1	430	50	16	185	29
NS104-30	7314150284818	1	430	50	16	185	30
NS104-31	7314150294435	1	430	53	16	185	31
NS104-32	7314150284825	1	420	53	16	185	32
NS104-33	7314150294442	1	490	55	18	200	33
NS104-34	7314150294459	1	490	55	18	200	34
NS104-35	7314150294466	1	520	58	19	205	35
NS104-36	7314150284832	1	520	58	19	205	36
NS104-37	7314150294473	1	620	61	20	215	37
NS104-38	7314150294480	1	620	61	20	215	38
NS104-39	7314150294497	1	620	61	19	215	39
NS104-40	7314150294503	1	680	64	20	225	40
NS104-41	7314150284849	1	680	64	20	225	41
NS104-42	7314150294510	1	680	64	20	225	42
NS104-43	7314150294527	1	680	64	20	225	43
NS104-44	7314150294534	1	890	73	22	235	44
NS104-45	7314150294541	1	890	73	22	235	45
NS104-46	7314150284856	1	890	73	22	235	46
NS104-47	7314150294558	1	890	73	22	235	47
NS104-48	7314150294565	1	1030	78	23	250	48
NS104-49	7314150294572	1	1030	78	23	250	49
NS104-50	7314150284863	1	1030	78	23	250	50
NS104-51	7314150294589	1	1030	78	23	250	51
NS104-52	7314150294596	1	1030	78	23	250	52
NS104-53	7314150294602	1	1300	86	24	265	53
NS104-54	7314150294619	1	1300	86	24	265	54
NS104-55	7314150284870	1	1300	86	24	265	55
NS104-56	7314150294626	1	1300	86	24	265	56
NS104-57	7314150294633	1	1300	86	24	265	57
NS104-58	7314150294640	1	1450	92	26	274	58
NS104-59	7314150294657	1	1450	92	26	274	59
NS104-60	7314150284887	1	1450	92	26	274	60
NS104-61	7314150294664	1	1450	92	26	274	61
NS104-62	7314150294671	1	1450	92	26	274	62
NS104-63	7314150294688	1	1800	102	30	398	63
NS104-64	7314150294695	1	1800	102	30	298	64



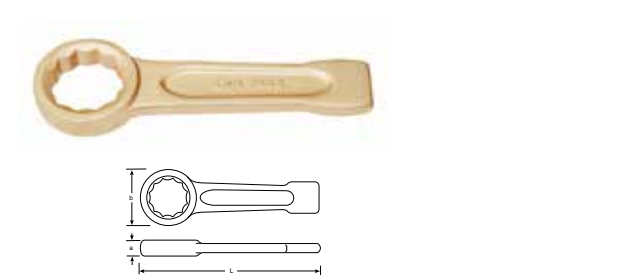
							
NS104-65	7314150294701	1	1800	102	30	298	65
NS104-66	7314150294718	1	1800	102	30	298	66
NS104-67	7314150294725	1	2200	108	32	320	67
NS104-68	7314150294732	1	2200	108	32	320	68
NS104-69	7314150294749	1	2200	108	32	320	69
NS104-70	7314150284894	1	2200	108	32	320	70
NS104-71	7314150294756	1	2200	108	32	320	71
NS104-72	7314150294763	1	2200	108	32	320	72
NS104-73	7314150294770	1	2720	113	33	326	73
NS104-74	7314150294787	1	2720	113	33	326	74
NS104-75	7314150284900	1	2720	113	33	326	75
NS104-76	7314150294794	1	2720	113	33	326	76
NS104-77	7314150294800	1	2720	113	33	326	77
NS104-78	7314150294817	1	3250	124	34	350	78
NS104-79	7314150294824	1	3250	124	34	350	79
NS104-80	7314150284917	1	3250	124	34	350	80
NS104-81	7314150294831	1	3250	124	34	350	81
NS104-82	7314150294848	1	3250	124	34	350	82
NS104-83	7314150294855	1	3915	130	36	355	83
NS104-84	7314150294862	1	3915	130	36	355	84
NS104-85	7314150284924	1	3915	130	36	355	85
NS104-86	7314150294879	1	3915	130	36	355	86
NS104-87	7314150294886	1	3915	130	36	355	87
NS104-88	7314150294893	1	4700	135	39	380	88
NS104-89	7314150294909	1	4700	135	39	380	89
NS104-90	7314150284931	1	4700	135	39	380	90
NS104-92	7314150294916	1	4700	135	39	380	92
NS104-94	7314150294923	1	4820	142	39	390	94
NS104-95	7314150284948	1	4920	142	39	390	95
NS104-98	7314150294930	1	6100	148	43	410	98
NS104-100	7314150294947	1	6100	148	43	410	100
NS104-105	7314150294954	1	6320	155	43	420	105
NS104-110	7314150294961	1	8250	162	45	445	110
NS104-115	7314150294978	1	8850	168	45	450	115
NS104-120	7314150294985	1	9930	182	50	480	120

WRENCHES



NON SPARKING RING END SLOGGING WRENCH, INCHES

- Slogging ring wrench, used with a hammer to tighten large bolts and nuts
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 7444



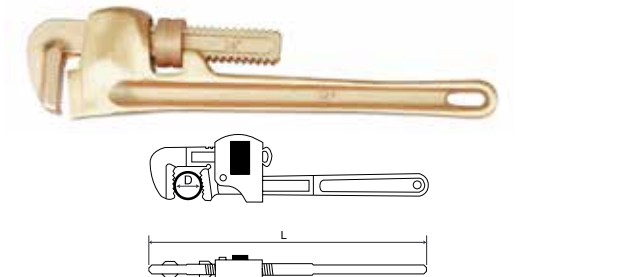
				B mm	A mm	L mm	
NS106-20	7314150294992	1	190	32	12	145	5/8
NS106-22	7314150295005	1	190	32	12	145	11/16
NS106-24	7314150295012	1	180	32	12	145	3/4
NS106-25	7314150295029	1	225	38	13	155	25/32
NS106-26	7314150295036	1	220	38	13	155	13/16
NS106-28	7314150295043	1	220	38	13	155	7/8
NS106-30	7314150295050	1	210	42	14	165	15/16
NS106-32	7314150295067	1	315	46	16	175	1
NS106-34	7314150295074	1	315	46	16	175	1 1/16
NS106-36	7314150295081	1	410	50	16	185	1 1/8
NS106-38	7314150295098	1	430	50	16	185	1 3/16
NS106-40	7314150295104	1	425	53	16	185	1 1/4
NS106-42	7314150295111	1	490	55	18	200	1 5/16
NS106-44	7314150295128	1	500	58	19	205	1 3/8
NS106-45	7314150295135	1	520	58	19	205	1 13/32
NS106-46	7314150295142	1	520	58	19	205	1 7/16
NS106-48	7314150295159	1	710	61	20	215	1 1/2
NS106-50	7314150295166	1	680	64	20	225	1 9/16
NS106-52	7314150295173	1	680	64	20	225	1 5/8
NS106-54	7314150295180	1	680	64	20	225	1 11/16
NS106-56	7314150295197	1	920	73	22	235	1 3/4
NS106-58	7314150295203	1	890	73	22	235	1 13/16
NS106-60	7314150295210	1	890	73	22	235	1 7/8
NS106-62	7314150295227	1	1030	78	23	250	1 15/16
NS106-64	7314150295234	1	1030	78	23	250	2
NS106-66	7314150295241	1	1300	86	24	265	2 1/16
NS106-68	7314150295258	1	1300	86	24	265	2 1/8
NS106-70	7314150295265	1	1300	86	24	265	2 3/16
NS106-71	7314150295272	1	1300	86	24	265	2 13/64
NS106-72	7314150295289	1	1450	92	26	274	2 1/4
NS106-74	7314150295296	1	1450	92	26	274	2 5/16
NS106-76	7314150295302	1	1450	92	26	274	2 3/8
NS106-78	7314150295319	1	1450	92	26	274	2 7/16
NS106-80	7314150295326	1	1800	102	30	298	2 1/2
NS106-82	7314150295333	1	1800	102	30	298	2 9/16
NS106-84	7314150295340	1	1800	102	30	298	2 5/8
NS106-88	7314150295357	1	2200	108	32	320	2 3/4
NS106-90	7314150295364	1	2200	108	32	320	2 13/16
NS106-92	7314150295371	1	2720	113	33	326	2 7/8
NS106-94	7314150295388	1	2720	113	33	326	2 15/16
NS106-96	7314150295395	1	2720	113	33	326	3
NS106-98	7314150295401	1	3250	124	34	350	3 1/16
NS106-100	7314150295418	1	3250	124	34	350	3 1/8
NS106-104	7314150295425	1	3915	130	36	355	3 1/4
NS106-108	7314150295432	1	3915	130	36	355	3 3/8

				B mm	A mm	L mm	
NS106-112	7314150295449	1	4700	142	39	390	3 1/2
NS106-114	7314150295456	1	4700	42	39	390	3 9/16
NS106-116	7314150295463	1	4700	142	39	390	3 5/8
NS106-120	7314150295470	1	4920	142	39	390	3 3/4
NS106-124	7314150295487	1	6100	148	43	410	3 7/8
NS106-126	7314150295494	1	6100	148	43	410	3 15/16
NS106-128	7314150295500	1	6100	148	43	410	4
NS106-132	7314150295517	1	6320	155	43	420	4 1/8
NS106-136	7314150295524	1	8250	162	45	445	4 1/4
NS106-138	7314150295531	1	8250	162	45	445	4 5/16
NS106-144	7314150295548	1	8850	168	45	450	4 1/2
NS106-146	7314150295555	1	8850	168	45	450	4 9/16
NS106-150	7314150295562	1	9930	182	50	480	4 11/16
NS106-156	7314150295579	1	9930	182	50	480	4 7/8
NS106-158	7314150295586	1	9930	182	50	480	4 15/16



NON SPARKING PIPE WRENCH

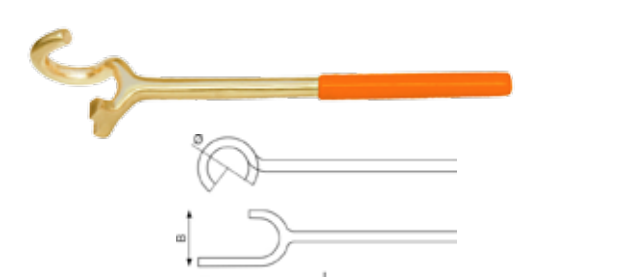
- Pipe wrench, for disassembling / assembling pipes and fittings
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard UNE 16554



				D in	D mm	L in	L mm
NS200-200	7314150295593	1	418	1	25	8	200
NS200-250	7314150295609	1	738	1 1/4	30	10	250
NS200-300	7314150295616	1	1050	1 1/2	40	12	300
NS200-350	7314150295623	1	1318	2	50	14	350
NS200-450	7314150295630	1	2260	2 7/16	60	18	450
NS200-600	7314150295647	1	3470	2 1/2	75	24	600
NS200-900	7314150295654	1	5890	3 1/2	85	36	900
NS200-1200	7314150295661	1	12620	4 1/4	110	48	1200

NON SPARKING LONG VALVE SPANNER

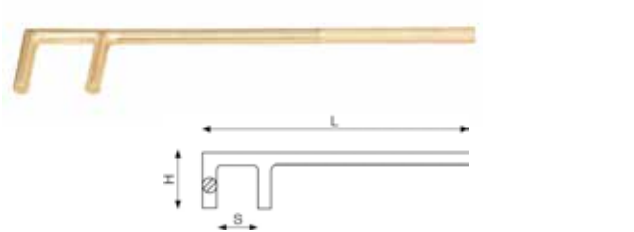
- Long valve spanner, providing leverage on hand-operated valve wheels
- Material: Aluminium Bronze



				B mm	Ø mm	L mm
NS202-350	7314150299690	1	650	60	36	370

NON SPARKING VALVE HOOK

- Universal F type valve hook to tighten or loosen safety valves
- Circular head and thick jaws increases the contact area with the valves
- Material: Aluminium Bronze



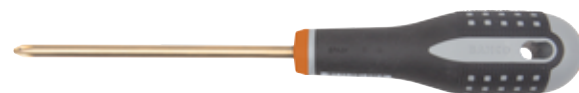
				H mm	L mm	S mm
NS204-30	7314150295685	1	250	44	200	30
NS204-32	7314150295692	1	490	50	300	32
NS204-35	7314150295708	1	325	47	250	35
NS204-40	7314150295715	1	422	50	300	40
NS204-45	7314150295722	1	540	58	350	45
NS204-48	7314150295739	1	595	62	375	48
NS204-50	7314150295746	1	615	67	400	50
NS204-55	7314150295753	1	870	73	450	55
NS204-60	7314150295760	1	1105	79	500	60
NS204-65	7314150295777	1	1250	82	550	65
NS204-70	7314150295784	1	1360	85	600	70
NS204-75	7314150295791	1	1540	88	650	75
NS204-80	7314150295807	1	1650	91	700	80
NS204-85	7314150295814	1	2015	97	750	85
NS204-90	7314150295821	1	2130	103	800	90

SCREWDRIVERS



NON SPARKING POZIDRIV® SCREWDRIVER ERGO™ HANDLE

- Screwdriver for Pozidriv® head screws, developed according to the scientific ERGO™ process
- Three-component handle, for maximum user comfort and force transmission
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Cold rolled
- Produced according to ISO 8764
- Handle produced in antistatic plastics



NSB304-0-50	7314150295913	1	35	170	122	20	50	PZ0	
NSB304-1-100	7314150295920	1	50	220	122	20	100	PZ1	
NSB304-2-125	7314150295937	1	80	250	122	27	125	PZ2	
NSB304-3-150	7314150295944	1	130	270	122	36	150	PZ3	
NSB304-4-300	7314150295951	1	230	420	122	36	300	PZ4	

NON SPARKING SLOTTED SCREWDRIVER ERGO™ HANDLE

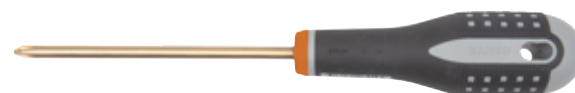
- Screwdriver for slotted head screws, developed according to the scientific ERGO™ process
- Three-component handle, for maximum user comfort and force transmission
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Cold rolled
- Produced according to ISO 2380
- Handle produced in antistatic plastics



NSB300-4.5-100	7314150295838	1	50	220	122	20	100	4,5	0,5
NSB300-6-100	7314150285327	1	75	220	122	27	100	6	1,0
NSB300-8-150	7314150285334	1	130	270	122	36	150	8	1,2
NSB300-10-300	7314150295845	1	245	320	122	36	200	100	1,8
NSB300-11-350	7314150295852	1	320	470	122	36	350	11	2
NSB300-12-400	7314150295869	1	415	520	122	36	400	12	2,4
NSB300-13-450	7314150295876	1	460	570	122	36	450	13	2,4

NON SPARKING PHILLIPS® SCREWDRIVER ERGO™ HANDLE

- Screwdriver for Phillips® head screws, developed according to the scientific ERGO™ process
- Three-component handle, for maximum user comfort and force transmission
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Cold rolled
- Produced according to ISO 8764
- Handle produced in antistatic plastics



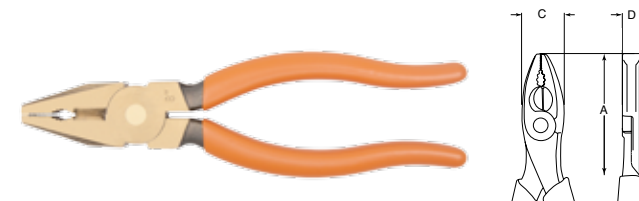
NSB302-0-50	7314150295883	1	35	170	122	20	50	PH0	
NSB302-1-100	7314150285341	1	50	220	122	20	100	PH1	
NSB302-2-125	7314150285358	1	80	250	122	27	125	PH2	
NSB302-3-150	7314150295890	1	130	270	122	36	150	PH3	
NSB302-4-300	7314150295906	1	230	420	122	36	300	PH4	

PLIERS



NON SPARKING COMBINATION PLIERS

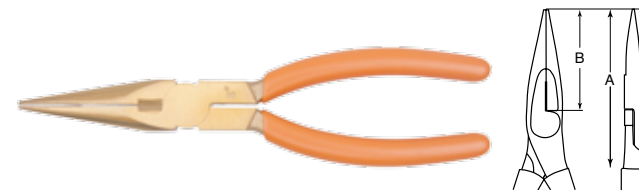
- Combination pliers with a cutting capacity of 1,0 Ø Cu and Fe wires
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- PVC coated handles
- Die forged
- Produced according to ISO 5746



NSB400-180	7314150285365	1	355	11	26	175	
NSB400-160	7314150295968	1	180	10	24	150	
NSB400-200	7314150295975	1	465	12	28	200	

NON SPARKING LONG NOSE PLIERS

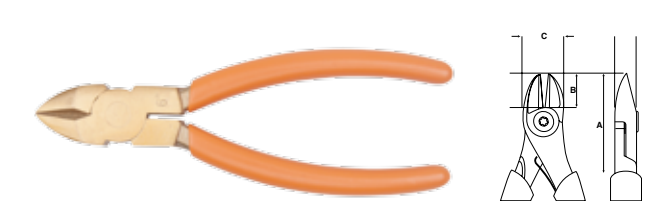
- Long nose pliers for cutting 1,0 Ø Cu and Fe wires
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistance
- PVC coated handles
- Die forged
- Produced according to ISO 5745



NSB406-160	7314150295999	1	190	54	160	
NSB406-200	7314150296002	1	335	74	200	

NON SPARKING DIAGONAL CUTTING PLIERS

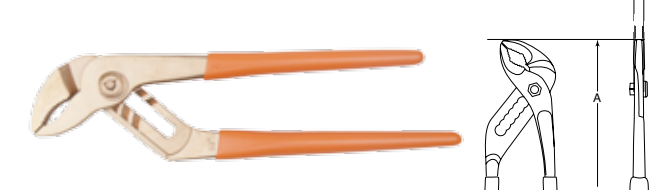
- Diagonal cutting pliers for cutting 0,8 Ø Cu and Fe wires
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- PVC coated handles
- Die forged
- Produced according to ISO 5749



NSB402-160	7314150295982	1	245	22	22	150
NSB402-200	7314150285372	1	410	30	28	200

NON SPARKING GROOVE JOINT PLIERS

- Slip joint pliers with adjustable joint
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- PVC coated handles
- Die forged
- Produced according to ISO 8976



NSB408-250	7314150285389	1	425	250	10	45



HAMMERS



NON SPARKING GERMAN TYPE STONING HAMMER

- German type stoning hammer with two-component handle, in fiberglass (-FB) or wood handle, in hickory
- Material: Aluminium Bronze
- Fulfilling product standard UNE 16590

					C	B	A
			g	g	mm	mm	mm
NS500-1000-FB	7314150296019	1	1300	1000	41	400	90
NS500-1500-FB	7314150296026	1	1800	1500	43	400	119
NS500-2000-FB	7314150284955	1	2300	2000	48	400	131
NS500-2500-FB	7314150284962	1	3200	2500	52	700	142
NS500-3000-FB	7314150284979	1	3700	3000	54	700	152
NS500-3500-FB	7314150284986	1	4200	3500	56	700	167

					C	B	A
			g	g	mm	mm	mm
NS500-2000	7314150291847	1	2300	2000	48	400	131
NS500-2500	7314150291854	1	3200	2500	52	700	142
NS500-3000	7314150291861	1	3700	3000	54	700	152
NS500-4000	7314150291878	1	4200	3500	56	700	167

NON SPARKING BALL PEIN HAMMER

- Ball pein hammer with two-component handle, in fiberglass (-FB) or wood handle, in hickory
- Material: Aluminium Bronze
- Fulfilling product standard UNE 16589

					C	B	A
			g	g	mm	mm	mm
NS506-700-FB	7314150285143	1	950	680	35	340	116
NS506-900-FB	7314150285150	1	1205	910	36	350	128

					C	B	A
			g	g	mm	mm	mm
NS506-300	7314150285129	1	502	340	25	300	90
NS506-450	7314150285136	1	680	450	27	325	102
NS506-700	7314150296071	1	950	680	34	365	116
NS506-900	7314150296088	1	1205	910	36	365	128

NON SPARKING SLEDGE HAMMER

- Sledge hammer with two-component handle, in fiberglass
- Material: Aluminium Bronze
- Fulfilling product standard UNE 16590

					C	B	A
			g	g	mm	mm	mm
NS502-450-FB	7314150296033	1	610	450	30	310	93
NS502-1000-FB	7314150284993	1	1300	1000	40	400	110
NS502-2000-FB	7314150285006	1	2300	2000	50	400	135
NS502-2500-FB	7314150285013	1	3210	2500	52	700	159
NS502-3000-FB	7314150285020	1	3710	3000	56	700	167
NS502-4500-FB	7314150285037	1	5410	4500	64	900	187
NS502-5000-FB	7314150285044	1	5910	5000	65	900	189
NS502-8000-FB	7314150285051	1	8910	8000	75	900	220
NS502-10000-FB	7314150285068	1	10810	10000	82	900	239

NON SPARKING MACHINIST'S HAMMER

- Machinist's hammer with two-component handle
- Material: Aluminium Bronze
- Fulfilling product standard DIN 1041

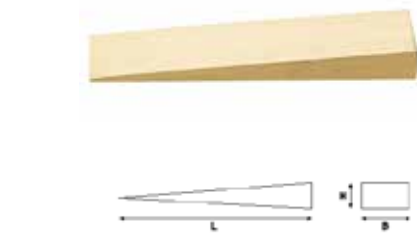
					C	B	A
			g	g	mm	mm	mm
NS504-100-FB	7314150296040	1	220	100	16	280	65
NS504-200-FB	7314150296057	1	320	200	22	280	85
NS504-300-FB	7314150296064	1	420	300	23	280	100
NS504-500-FB	7314150285075	1	655	500	28	310	113
NS504-800-FB	7314150285082	1	975	800	33	340	130
NS504-1000-FB	7314150285099	1	1175	1000	35	340	142
NS504-1500-FB	7314150285105	1	1850	1500	40	400	160
NS504-2000-FB	7314150285112	1	2455	2000	45	400	170



OTHER STRIKING TOOLS

NON SPARKING WEDGE

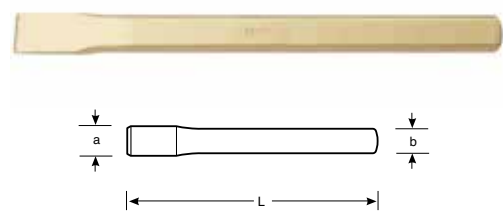
- Wedge, for lifting up or separating objects or holding them in place
- Material: Aluminium Bronze
- Die-forged



				L mm	H mm	B mm
NS600-80-13	7314150296095	1	23	80	6	13
NS600-100-50	7314150296101	1	185	100	10	50
NS600-135-50	7314150296118	1	455	135	18	50
NS600-150-25	7314150296125	1	112	150	8	25
NS600-150-30	7314150301676	1	112	150	13	25
NS600-150-40	7314150296132	1	180	150	8	40
NS600-150-50	7314150296149	1	365	150	13	50
NS600-180-13	7314150296156	1	75	180	6	13
NS600-180-32	7314150285167	1	280	180	13	32
NS600-180-50	7314150285174	1	640	180	19	50
NS600-200-20	7314150296163	1	451	200	30	20
NS600-200-30	7314150296170	1	675	200	30	30
NS600-200-40	7314150296187	1	1200	200	40	40
NS600-200-50	7314150301782	1	450	200	12	50
NS600-230-40	7314150296194	1	690	230	20	40
NS600-250-40	7314150296200	1	1125	250	30	40
NS600-300-50	7314150296217	1	2250	300	40	50

NON SPARKING FLAT CHISEL

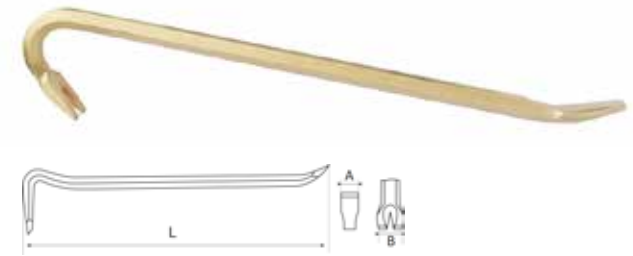
- Flat chisel, for creating grooves and slots
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 6453



				L mm	A mm	B mm
NS606-150	7314150285228	1	205	150	22	22x11
NS606-200	7314150285235	1	280	200	22	22x11
NS606-250	7314150285242	1	440	250	24	24x12
NS606-300	7314150285259	1	700	300	25	25x12
NS606-400	7314150285266	1	1100	400	27	27x14

NON SPARKING WRECKING BAR

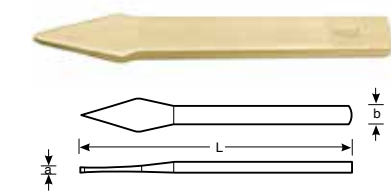
- Wrecking bar, works as a lever either to force apart two objects or to remove nails
- Curved at the forked end to provide more leverage
- Material: Aluminium Bronze



				Ø mm	L mm	A mm	B mm
NS602-460	7314150285181	1	800	16	460	16	28
NS602-600	7314150285198	1	2250	20	600	20	31
NS602-760	7314150296224	1	2800	22	760	22	39
NS602-900	7314150296231	1	3300	22	920	22	39

NON SPARKING CROSS CUTTING CHISEL

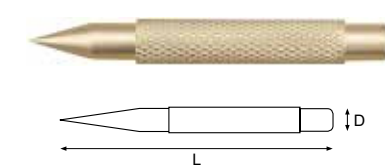
- Cross cutting chisel, for creating grooves and slots
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 6451



				L mm	A mm	B mm
NS604-150	7314150296248	1	255	140	6	11
NS604-200	7314150285204	1	435	200	7	12
NS604-300	7314150285211	1	760	300	8	13

NON SPARKING CENTRE PUNCH

- Centre punch to mark the centre of a hole when drilling
- Material: Aluminium Bronze
- Die-forged
- Fulfilling product standard DIN 7250



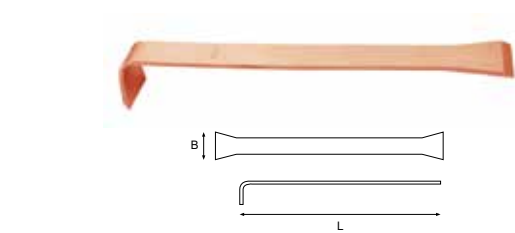
				L mm	D mm
NS608-100	7314150285273	1	125	100	16

SCRAPERS



NON SPARKING ANGLED SCRAPER

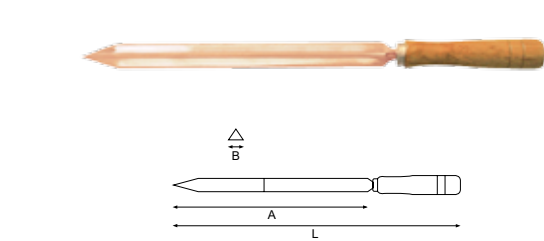
- Angled scraper
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Die forged



				L mm	B mm
NSB700-300	7314150296255	1	450	300	45

NON SPARKING THREE-SQUARE SCRAPER

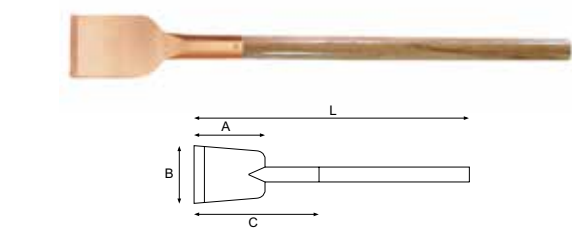
- Three-square scraper with beech handle
- Material: Copper Beryllium
- Antimagnetic and high corrosion resistant
- Die forged



				L mm	A mm	B mm
NSB708-360	7314150296309	1	420	360	300	20

NON SPARKING LONG BLADE SCRAPER

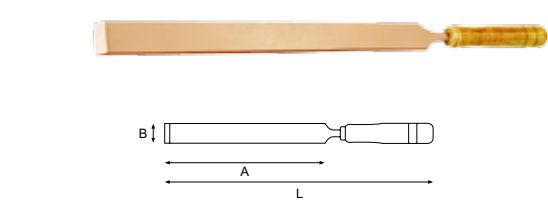
- Long blade scrapers with beech handle
- Sharp blade, labor saving
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Die forged



				L mm	A mm	B mm	C mm
NSB704-225	7314150296279	1	1215	710	117	100	225

NON SPARKING FLAT SCRAPER

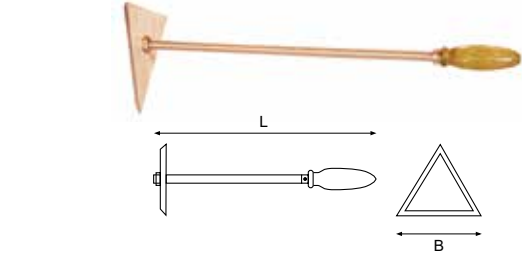
- Flat scraper with beech handle
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Die forged
- Fulfilling product standard DIN 3113



				L mm	A mm	B mm
NSB702-200	7314150296262	1	330	325	200	30

NON SPARKING TRIANGULAR SHAPE SCRAPER

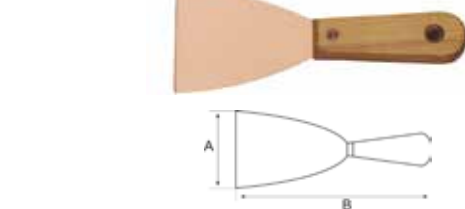
- Triangular ship scraper with beech handle
- Material: Copper Beryllium
- Antimagnetic and high corrosion resistant
- Die forged



				L mm	B mm
NSB710-450	7314150296316	1	900	470	150

NON SPARKING FLEXIBLE SCRAPER

- Flexible scrapers with beech handle, suitable for scraping and spreading
- Material: Copper Beryllium
- Anti-magnetic and high corrosion resistant
- Cold rolled
- Fulfilling product standard DIN 7216



				A mm	B mm
NSB706-50	7314150296286	1	165	50	200
NSB706-80	7314150296293	1	165	80	200

CONSTRUCTION TOOLS

NON SPARKING PICK AXE

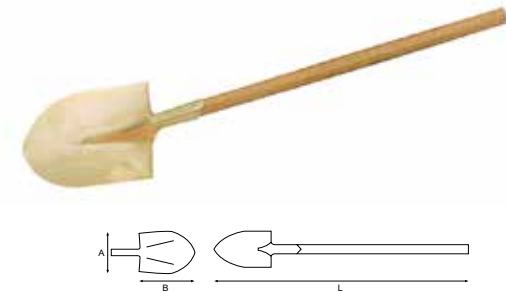
- Pick axe, for breaking up hard, rocky soil
- Material: Aluminium Bronze



				L mm	A mm	B mm
NS800-1100	7314150296323	1	2000	910	48	360
NS800-1700	7314150285280	1	2800	910	55	385
NS800-2000	7314150296330	1	3200	910	58	410

NON SPARKING ROUND SHOVEL

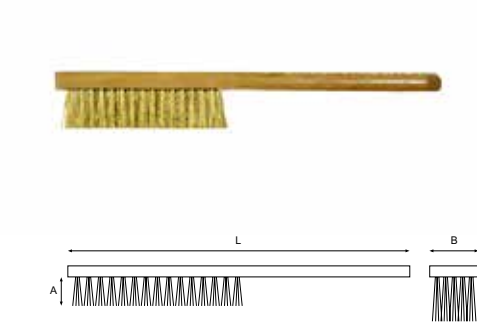
- Round shovel, for digging, lifting and moving applications
- Extra long handle
- Material: Aluminium Bronze
- Cold rolled



				L mm	A mm	B mm
NS802-290	7314150285297	1	950	1450	240	290

NON SPARKING HAND BRUSH

- Hand brush with wooden handle, for cleaning metallic surfaces
- Rows: 4x16
- Material: Brass



				L mm	A mm	B mm
NS804-290	7314150296347	1	115	290	28	29



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