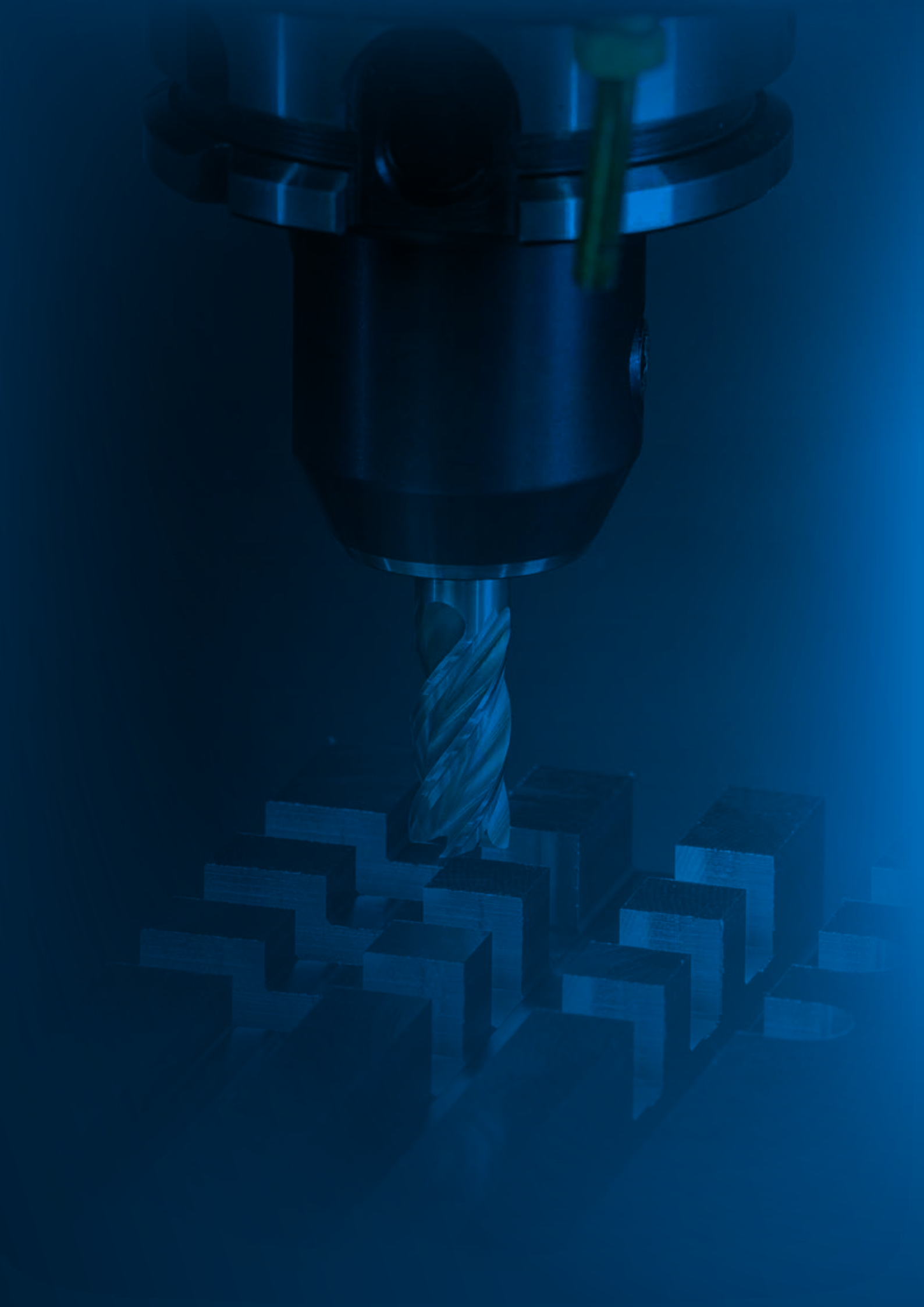


PRECISION TOOLING
METROLOGY
MRO
LUBRICANTS
HANDLING

HIGHLIGHT⁺ TECHNOLOGY

NET PRICES VALID UNTIL 30.09.23 (VAT EXCLUDED)

EN





The A + B Group is an industrial reality that has 14 companies producing and distributing products around 3 meters from the machine tool.



Worldwide we serve more than 15.000 customers.



We have 5 production sites where we develop highly technological products.

We guarantee high added value consultancy thanks to our strong territorial presence, with 120 technical engineers and product managers.



The technological level of the products we market are designed to reduce processing time, increase the production level and improve efficiency and operations within the mechanical workshop.



Our catalogue contains more than 27.000 items including both private and well known brands (Mitutoyo, Milwaukee,...).

30

LUBRICANTS



04

PRECISION
TOOLING



34

MRO

*in 3 m
everything*



60
HANDLING



24
METROLOGY

eters
you need

PRECISION TOOLING



KERFOLG HD

DRILLS REINFORCED SHANK

The Kerfolg HD range aims at guarantee a high productivity in processing long- and short-chip materials, such as structural and hardening steel, cast iron steel, heat-treatable steel and steel alloyed with $R \leq 1200 \text{ N/mm}^2$, and also carbon steel and cast iron.

REINFORCED SHANK

The reinforced shank allows a greater toughness for transferring the cutting force.

ADVANCED FLUTE DESIGN

Its advanced flute design allows working with performances on a wide range of materials, facilitating the chip evacuation.

LUBRICATION HOLES

The helicoidal form of the lubrication holes allows to increase the performance of the coolant adduction, in order to control better the temperature in the cutting zone.

SPLIT POINT

The split point increases the chip evacuation breaking it into pieces, keeping the cutting zone free of bodies that may lower bore finishing and drill integrity.

80%
OF MATERIALS

LESS POWER REQUIRED

BETTER TOOL LIFE

REDUCTION IN MACHINE DOWN TIMES

UNIVERSAL TOOL

DRILLS REINFORCED SHANK 3XD COOLANT HOLES



SPECS

MATERIALS



CODE	L23	HT	D mm	d mm	l mm	L mm	l1 mm
A00203	-55,70-	35,00	3,00	6	20	62	14
A00203,1	-55,70-	35,00	3,10	6	20	62	14
A00203,2	-55,70-	35,00	3,20	6	20	62	14
A00203,3	-55,70-	35,00	3,30	6	20	62	14
A00203,4	-55,70-	35,00	3,40	6	20	62	14
A00203,5	-55,70-	35,00	3,50	6	20	62	14
A00203,7	-55,70-	35,00	3,70	6	20	62	14
A00203,8	-55,70-	35,00	3,80	6	20	62	14
A00203,9	-55,70-	35,00	3,90	6	24	66	17
A00204	-58,13-	36,00	4,00	6	24	66	17
A00204,1	-60,07-	37,00	4,10	6	24	66	17
A00204,2	-58,13-	36,00	4,20	6	24	66	17
A00204,3	-60,07-	37,00	4,30	6	24	66	17
A00204,4	-60,07-	37,00	4,40	6	24	66	17
A00204,5	-58,13-	36,00	4,50	6	24	66	17
A00204,6	-60,07-	37,00	4,60	6	24	66	17
A00204,7	-60,07-	37,00	4,70	6	24	66	17
A00204,8	-58,13-	36,00	4,80	6	24	66	20
A00204,9	-60,07-	37,00	4,90	6	24	66	20
A00205	-58,13-	36,00	5,00	6	28	66	20
A00205,1	-58,13-	36,00	5,10	6	28	66	20
A00205,2	-58,13-	36,00	5,20	6	28	66	20
A00205,3	-58,13-	36,00	5,30	6	28	66	20
A00205,5	-58,13-	36,00	5,50	6	28	66	20
A00205,6	-60,07-	37,00	5,60	6	28	66	20
A00205,7	-60,13-	37,00	5,70	6	28	66	20
A00205,8	-60,07-	37,00	5,80	6	28	66	20

CODE	L23	HT	D mm	d mm	l mm	L mm	l1 mm
A00205,9	-60,07-	37,00	5,90	6	28	66	20
A00206	-58,13-	36,00	6,00	6	28	66	20
A00206,1	-79,07-	49,00	6,10	8	34	79	24
A00206,2	-79,07-	49,00	6,20	8	34	79	24
A00206,3	-79,07-	49,00	6,30	8	34	79	24
A00206,4	-79,07-	49,00	6,40	8	34	79	24
A00206,5	-79,07-	49,00	6,50	8	34	79	24
A00206,8	-79,07-	49,00	6,80	8	34	79	24
A00206,9	-79,07-	49,00	6,90	8	34	79	24
A00207	-79,07-	49,00	7,00	8	34	79	24
A00207,1	-79,07-	49,00	7,10	8	34	79	29
A00207,2	-79,07-	49,00	7,20	8	34	79	29
A00207,3	-73,40-	45,00	7,30	8	34	79	29
A00207,4	-79,07-	49,00	7,40	8	41	79	29
A00207,5	-79,07-	49,00	7,50	8	41	79	29
A00207,7	-79,07-	49,00	7,70	8	41	79	29
A00207,8	-79,07-	49,00	7,80	8	41	79	29
A00207,9	-79,07-	49,00	7,90	8	41	79	29
A00208	-79,07-	49,00	8,00	8	41	79	29
A00208,1	-89,15-	55,00	8,10	10	47	89	35
A00208,2	-89,15-	55,00	8,20	10	47	89	35
A00208,3	-89,15-	55,00	8,30	10	47	89	35
A00208,4	-89,15-	55,00	8,40	10	47	89	35
A00208,5	-89,15-	55,00	8,50	10	47	89	35
A00208,6	-89,15-	55,00	8,60	10	47	89	35
A00208,7	-89,15-	55,00	8,70	10	47	89	35
A00208,8	-89,15-	55,00	8,80	10	47	89	35

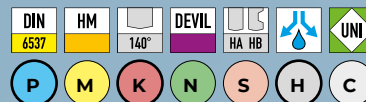
CODE	L23	HT	D mm	d mm	l mm	L mm	l1 mm
A00209	-89,15-	55,00	9,00	10	47	89	35
A00209,2	-87,42-	55,00	9,20	10	47	89	35
A00209,3	-89,15-	55,00	9,30	10	47	89	35
A00209,5	-89,15-	55,00	9,50	10	47	89	35
A00209,7	-89,22-	55,00	9,70	10	47	89	35
A00209,8	-89,15-	55,00	9,80	10	47	89	35
A002010	-89,15-	55,00	10,00	10	47	89	35
A002010,2	-127,34-	79,00	10,20	12	55	102	40
A002010,5	-127,34-	79,00	10,50	12	55	102	40
A002010,8	-127,34-	79,00	10,80	12	55	102	40
A002011	-127,34-	79,00	11,00	12	55	102	40
A002011,2	-127,34-	79,00	11,20	12	55	102	40
A002011,5	-127,34-	79,00	11,50	12	55	102	40
A002011,8	-127,34-	79,00	11,80	12	55	102	40
A002012	-127,34-	79,00	12,00	12	55	102	40
A002012,2	-166,20-	120,00	12,20	14	60	107	43
A002012,5	-166,17-	103,00	12,50	14	60	107	43
A002012,8	-166,17-	103,00	12,80	14	60	107	43
A002013	-166,17-	103,00	13,00	14	60	107	43
A002013,5	-166,17-	103,00	13,50	14	60	107	43
A002013,8	-166,17-	103,00	13,80	14	60	107	43
A002014	-166,17-	103,00	14,00	14	60	107	43
A002014,5	-187,34-	116,00	14,50	14	60	107	43
A002015	-187,34-	116,00	15,00	16	65	115	45
A002015,5	-187,34-	116,00	15,50	16	65	115	45
A002016	-187,34-	116,00	16,00	16	65	115	45

DRILLS REINFORCED SHANK 5XD COOLANT HOLES



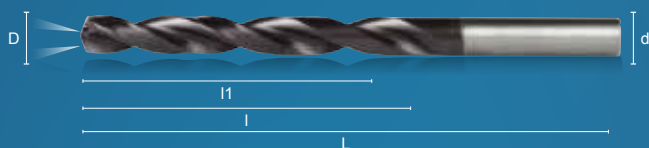
SPECS

MATERIALS



CODE	L23	HT	D mm	d mm	l mm	L mm	l1 mm
A00401	-64,70-	40,00	1,00	4	7	45	6
A00401,1	-64,70-	40,00	1,10	4	7,5	45	6
A00401,2	-64,70-	40,00	1,20	4	8	45	7
A00401,3	-64,70-	40,00	1,30	4	9	45	7
A00401,4	-64,70-	40,00	1,40	4	10	45	8
A00401,5	-64,70-	40,00	1,50	4	10,5	50	8
A00401,6	-64,70-	40,00	1,60	4	11	50	9
A00401,7	-64,70-	40,00	1,70	4	12	50	9
A00401,8	-64,70-	40,00	1,80	4	12,5	50	10
A00401,85	-90,70-	56,00	1,85	4	12,5	50	10
A00401,9	-64,70-	40,00	1,90	4	13,5	50	10
A00402	-64,70-	40,00	2,00	4	14	55	11
A00402,1	-64,70-	40,00	2,10	4	14,5	55	12
A00402,2	-64,70-	40,00	2,20	4	15,5	55	12
A00402,3	-64,70-	40,00	2,30	4	16	55	13
A00402,4	-64,70-	40,00	2,40	4	17	55	13
A00402,5	-64,70-	40,00	2,50	4	17,5	55	14
A00402,6	-64,70-	40,00	2,60	4	18	55	14
A00402,7	-64,70-	40,00	2,70	4	19	55	15
A00402,8	-64,70-	40,00	2,80	4	19,5	55	15
A00402,9	-64,70-	40,00	2,90	4	20,5	55	16
A00403	-74,66-	46,00	3,00	6	28	66	23
A00403,1	-74,66-	46,00	3,10	6	28	66	23
A00403,2	-74,66-	46,00	3,20	6	28	66	23
A00403,3	-74,66-	46,00	3,30	6	28	66	23
A00403,4	-74,66-	46,00	3,40	6	28	66	23
A00403,5	-74,66-	46,00	3,50	6	28	66	23
A00403,6	-74,66-	46,00	3,60	6	28	66	23
A00403,7	-74,66-	46,00	3,70	6	28	66	23
A00403,8	-74,66-	46,00	3,80	6	36	74	29
A00403,9	-74,66-	46,00	3,90	6	36	74	29
A00404	-80,33-	50,00	4,00	6	36	74	29
A00404,1	-80,33-	50,00	4,10	6	36	74	29
A00404,2	-80,33-	50,00	4,20	6	36	74	29
A00404,3	-80,33-	50,00	4,30	6	36	74	29
A00404,4	-80,33-	50,00	4,40	6	36	74	29
A00404,5	-80,33-	50,00	4,50	6	36	74	29
A00404,6	-80,33-	50,00	4,60	6	36	74	29
A00404,7	-80,33-	50,00	4,70	6	36	74	29
A00404,8	-80,33-	50,00	4,80	6	44	82	35
A00404,9	-80,33-	50,00	4,90	6	44	82	35
A00405	-80,33-	50,00	5,00	6	44	82	35

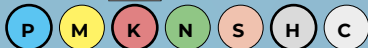
CODE	L23	HT	D	d	l	L	l1
			mm	mm	mm	mm	mm
A00405,1	-80,33-	50,00	5,10	6	44	82	35
A00405,2	-80,33-	50,00	5,20	6	44	82	35
A00405,3	-80,33-	50,00	5,30	6	44	82	35
A00405,4	-80,33-	50,00	5,40	6	44	82	35
A00405,5	-80,33-	50,00	5,50	6	44	82	35
A00405,6	-80,33-	50,00	5,60	6	44	82	35
A00405,7	-80,33-	50,00	5,70	6	44	82	35
A00405,8	-80,33-	50,00	5,80	6	44	82	35
A00405,9	-80,33-	50,00	5,90	6	44	82	35
A00406	-80,33-	50,00	6,00	6	53	82	35
A00406,1	-80,21-	55,00	6,10	8	53	82	43
A00406,2	-80,21-	55,00	6,20	8	53	82	43
A00406,3	-80,21-	55,00	6,30	8	53	82	43
A00406,4	-80,21-	55,00	6,40	8	53	82	43
A00406,5	-80,21-	55,00	6,50	8	53	91	43
A00406,6	-80,21-	55,00	6,60	8	53	91	43
A00406,7	-80,21-	55,00	6,70	8	53	91	43
A00406,8	-80,21-	55,00	6,80	8	53	91	43
A00406,9	-80,21-	55,00	6,90	8	53	91	43
A00407	-80,21-	55,00	7,00	8	53	91	43
A00407,1	-80,21-	55,00	7,10	8	53	91	43
A00407,2	-80,21-	55,00	7,20	8	53	91	43
A00407,3	-80,21-	55,00	7,30	8	53	91	43
A00407,4	-80,21-	55,00	7,40	8	53	91	43
A00407,5	-80,21-	55,00	7,50	8	53	91	43
A00407,6	-80,21-	55,00	7,60	8	53	91	43
A00407,7	-80,21-	55,00	7,70	8	53	91	43
A00407,8	-80,21-	55,00	7,80	8	53	91	43
A00407,9	-80,21-	55,00	7,90	8	53	91	43
A00408	-80,21-	55,00	8,00	8	53	91	43
A00408,1	-102,25-	63,00	8,10	10	61	91	49
A00408,2	-102,25-	63,00	8,20	10	61	91	49
A00408,3	-102,25-	63,00	8,30	10	61	91	49
A00408,4	-102,25-	63,00	8,40	10	61	91	49
A00408,5	-102,25-	63,00	8,50	10	61	103	49
A00408,6	-102,25-	63,00	8,60	10	61	103	49
A00408,7	-102,25-	63,00	8,70	10	61	103	49
A00408,8	-102,25-	63,00	8,80	10	61	103	49
A00408,9	-102,25-	63,00	8,90	10	61	103	49
A00409	-102,25-	63,00	9,00	10	61	103	49
A00409,1	-102,25-	63,00	9,10	10	61	103	49
A00409,2	-102,25-	63,00	9,20	10	61	103	49



SPECS



MATERIALS



CODE	L23	HT	D mm	d mm	l mm	L mm	l1 mm
A00504	-138,00	86,00	4,00	6	43	81	36
A00504,1	-138,00	86,00	4,10	6	43	81	36
A00504,2	-138,00	86,00	4,20	6	43	81	36
A00504,3	-138,00	86,00	4,30	6	43	81	36
A00504,5	-138,00	86,00	4,50	6	43	81	36
A00504,6	-138,00	86,00	4,60	6	43	81	36
A00504,7	-138,00	86,00	4,70	6	43	81	36
A00504,8	-138,00	86,00	4,80	6	57	95	48
A00504,9	-138,00	86,00	4,90	6	57	95	48
A00505	-138,00	86,00	5,00	6	57	95	48
A00505,1	-138,00	86,00	5,10	6	57	95	48
A00505,2	-138,00	86,00	5,20	6	57	95	48
A00505,3	-138,00	86,00	5,30	6	57	95	48
A00505,5	-138,00	86,00	5,50	6	57	95	48
A00505,8	-138,00	86,00	5,80	6	57	95	48
A00505,9	-138,00	86,00	5,90	6	57	95	48
A00506	-138,00	86,00	6,00	6	57	95	48
A00506,1	-171,86	107,00	6,10	8	76	114	64
A00506,2	-171,86	107,00	6,20	8	76	114	64
A00506,3	-171,86	107,00	6,30	8	76	114	64
A00506,5	-171,86	107,00	6,50	8	76	114	64
A00506,6	-171,86	107,00	6,60	8	76	114	64
A00506,7	-171,86	107,00	6,70	8	76	114	64
A00506,8	-171,86	107,00	6,80	8	76	114	64
A00507	-171,86	107,00	7,00	8	76	114	64
A00507,4	-171,86	107,00	7,40	8	76	114	64
A00507,5	-171,86	107,00	7,50	8	76	114	64
A00507,7	-171,86	107,00	7,70	8	76	114	64
A00507,8	-171,86	107,00	7,80	8	76	114	64
A00508	-171,86	107,00	8,00	8	76	114	64
A00508,5	-240,74	131,00	8,50	10	95	142	80
A00509	-240,74	131,00	9,00	10	95	142	80
A00509,1	-240,74	131,00	9,10	10	95	142	80
A00509,5	-240,74	131,00	9,50	10	95	142	80
A005010	-240,74	131,00	10,00	10	95	142	80
A005010,5	-289,70	180,00	10,50	12	114	162	96
A005011	-289,70	180,00	11,00	12	114	162	96
A005011,5	-289,70	180,00	11,50	12	114	162	96
A005012	-289,70	180,00	12,00	12	114	162	96
A005012,5	-433,76	269,00	12,50	14	133	178	112
A005013	-433,76	269,00	13,00	14	133	178	112
A005013,5	-433,76	269,00	13,50	14	133	178	112
A005014	-433,76	269,00	14,00	14	133	178	112
A005014,5	-571,77	355,00	14,50	16	152	203	128
A005015	-571,77	355,00	15,00	16	152	203	128
A005015,5	-571,77	355,00	15,50	16	152	203	128
A005016	-571,77	355,00	16,00	16	152	203	128

FOLLOW THE
KERFOLG 
PROGRAM
FOR YOUR MACHINING
OPERATION

STUB DRILLS

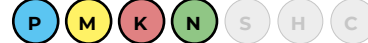


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A10401	-9,48	5,88	1,00	6	26
A10401,2	-9,60	5,95	1,20	8	30
A10401,4	-9,94	5,54	1,40	9	32
A10401,5	-9,94	5,54	1,50	9	32
A10402	-7,58	4,70	2,00	12	38
A10402,2	-9,21	5,71	2,20	13	40
A10402,4	-9,34	5,79	2,40	14	43
A10402,5	-9,26	5,12	2,50	14	43
A10402,6	-9,60	5,95	2,60	14	43
A10402,8	-9,48	5,88	2,80	16	46
A10402,9	-9,48	5,88	2,90	16	46
A10403	-8,52	5,28	3,00	16	46
A10403,1	-8,94	5,54	3,10	18	49
A10403,2	-8,94	5,54	3,20	18	49
A10403,3	-8,94	5,54	3,30	18	49
A10403,4	-8,94	5,54	3,40	20	52
A10403,5	-8,94	5,54	3,50	20	52
A10403,8	-10,41	6,45	3,80	22	55
A10404	-10,01	6,21	4,00	22	55
A10404,1	-11,24	6,97	4,10	22	55
A10404,2	-10,01	6,21	4,20	22	55
A10404,3	-11,36	7,04	4,30	24	58
A10404,5	-11,24	6,97	4,50	24	58
A10404,6	-11,24	6,97	4,60	24	58
A10404,7	-12,06	7,48	4,70	24	58
A10404,8	-12,31	7,63	4,80	26	62
A10405	-10,95	6,79	5,00	26	62
A10405,1	-11,64	7,22	5,10	26	62
A10405,2	-13,00	8,06	5,20	26	62
A10405,3	-13,12	8,13	5,30	26	62
A10405,5	-12,18	7,55	5,50	28	66
A10405,6	-14,35	8,90	5,60	28	66

SPECS



MATERIALS



CODE	L23	HT	D mm	I mm	L mm
A10405,8	-14,62	9,06	5,80	28	66
A10406	-13,12	8,12	6,00	28	66
A10406,1	-15,00	9,30	6,10	31	70
A10406,2	-15,00	9,30	6,20	31	70
A10406,3	-15,83	9,81	6,30	31	70
A10406,5	-15,29	9,48	6,50	31	70
A10406,7	-16,92	10,49	6,70	31	70
A10406,8	-18,81	11,66	6,80	34	74
A10407	-16,66	10,32	7,00	34	74
A10407,5	-17,46	10,83	7,50	34	74
A10407,7	-22,46	13,93	7,70	37	79
A10407,8	-22,46	13,93	7,80	37	79
A10408	-20,66	12,75	8,00	37	79
A10408,1	-27,61	17,12	8,10	37	79
A10408,2	-27,61	17,12	8,20	37	79
A10408,5	-24,22	15,02	8,50	37	79
A10408,8	-30,29	18,78	8,80	40	84
A10409	-24,49	15,18	9,00	40	84
A10409,5	-27,18	16,85	9,50	40	84
A10409,8	-32,94	20,05	9,80	43	89
A104010	-26,63	16,45	10,00	43	89
A104010,2	-33,67	20,81	10,20	43	89
A104010,5	-31,96	19,81	10,50	43	89
A104011	-35,47	21,99	11,00	47	95
A104011,5	-40,05	25,33	11,50	47	95
A104012	-39,66	24,59	12,00	51	102
A104012,3	-43,85	27,19	12,30	51	102
A104012,5	-43,85	27,19	12,50	51	102
A104013	-43,85	27,19	13,00	51	102
A104013,5	-46,55	28,86	13,50	54	107
A104014	-58,18	36,00	14,00	54	107

JOBBER DRILLS

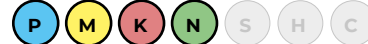


CODE	L23	HT	D mm	I mm	L mm
A12001	-7,45	4,62	1,00	12	34
A12001,2	-7,94	4,92	1,20	16	38
A12001,4	-7,82	4,85	1,40	18	40
A12001,5	-7,45	4,62	1,50	18	40
A12002	-7,64	4,67	2,00	24	49
A12002,2	-8,31	5,15	2,20	27	53
A12002,4	-7,67	4,76	2,40	27	53
A12002,5	-7,67	4,76	2,50	30	57
A12002,6	-8,08	5,01	2,60	30	57
A12002,8	-8,44	5,23	2,80	33	61
A12002,9	-9,34	5,79	2,90	33	61
A12003	-8,18	5,07	3,00	33	61
A12003,1	-9,34	5,79	3,10	36	65
A12003,2	-9,07	5,62	3,20	36	65
A12003,3	-9,20	5,70	3,30	36	65
A12003,4	-9,96	6,18	3,40	39	70
A12003,5	-9,96	6,18	3,50	39	70
A12003,8	-10,59	6,57	3,80	43	75
A12004	-10,33	6,40	4,00	43	75
A12004,1	-10,59	6,57	4,10	43	75
A12004,2	-10,59	6,57	4,20	43	75
A12004,3	-11,34	7,03	4,30	47	80
A12004,5	-10,96	6,80	4,50	47	80
A12004,6	-11,70	7,25	4,60	47	80
A12004,8	-11,86	7,35	4,80	52	86
A12005	-11,70	7,25	5,00	52	86
A12005,1	-11,98	7,43	5,10	52	86
A12005,2	-11,98	7,43	5,20	52	86
A12005,3	-13,25	8,22	5,30	52	86
A12005,5	-13,97	8,66	5,50	57	93
A12005,6	-14,74	9,14	5,60	57	93

SPECS

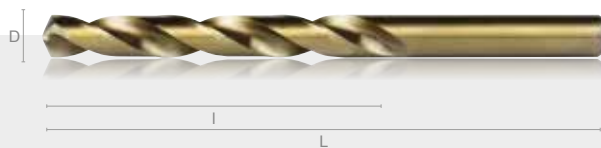


MATERIALS



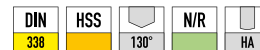
CODE	L23	HT	D mm	I mm	L mm
A12005,8	-14,74	9,14	5,80	57	93
A12006	-14,23	8,82	6,00	57	93
A12006,2	-15,74	9,76	6,20	63	101
A12006,3	-15,60	9,61	6,30	63	101
A12006,5	-16,76	10,39	6,50	63	101
A12006,7	-17,89	11,09	6,70	63	101
A12006,8	-19,16	11,88	6,80	69	109
A12006,9	-19,79	12,27	6,90	69	109
A12007	-19,16	11,88	7,00	69	109
A12007,5	-20,15	12,49	7,50	69	109
A12007,7	-23,93	14,84	7,70	75	117
A12007,8	-23,93	14,84	7,80	75	117
A12008	-22,80	14,14	8,00	75	117
A12008,2	-24,68	15,30	8,20	75	117
A12008,5	-23,30	14,45	8,50	75	117
A12008,8	-27,33	16,94	8,80	81	125
A12009	-25,83	16,01	9,00	81	125
A12009,3	-27,08	16,79	9,30	81	125
A12009,5	-27,08	16,79	9,50	81	125
A12009,8	-31,51	19,54	9,80	87	133
A120010	-30,35	18,82	10,00	87	133
A120010,2	-35,15	21,79	10,20	87	133
A120010,5	-36,65	22,04	10,50	87	133
A120011	-36,65	22,72	11,00	94	142
A120011,5	-40,67	25,15	11,50	94	142
A120012	-43,32	26,86	12,00	101	151
A120012,5	-45,10	27,96	12,50	101	151
A120013	-47,87	29,68	13,00	101	151
A120013,5	-55,54	34,00	13,50	108	160
A120014	-58,07	36,00	14,00	108	160

JOBBER DRILLS



CODE	L23	HT	D mm	I mm	L mm
A11451	-4,89-	2,69	1,00	12	34
A11451,1	-4,80-	2,64	1,10	14	36
A11451,2	-4,89-	2,69	1,20	16	38
A11451,3	-4,76-	2,62	1,30	16	38
A11451,4	-4,55-	2,50	1,40	18	40
A11451,5	-4,22-	2,32	1,50	18	40
A11451,6	-2,74-	1,51	1,60	20	43
A11451,7	-2,67-	1,47	1,70	20	43
A11451,8	-2,63-	1,45	1,80	22	46
A11451,9	-2,63-	1,45	1,90	22	46
A11452	-2,56-	1,41	2,00	24	49
A11452,1	-2,67-	1,47	2,10	24	49
A11452,2	-2,74-	1,51	2,20	27	53
A11452,3	-2,67-	1,47	2,30	27	53
A11452,4	-2,83-	1,56	2,40	30	57
A11452,5	-2,74-	1,51	2,50	30	57
A11452,6	-2,93-	1,61	2,60	30	57
A11452,7	-3,00-	1,65	2,70	33	61
A11452,8	-2,93-	1,61	2,80	33	61
A11452,9	-3,06-	1,68	2,90	33	61
A11453	-2,97-	1,63	3,00	33	61
A11453,2	-3,27-	1,80	3,10	36	65
A11453,3	-3,27-	1,80	3,20	36	65
A11453,4	-3,50-	1,93	3,30	36	65
A11453,5	-3,44-	1,88	3,40	39	70
A11453,6	-3,75-	2,06	3,50	39	70
A11453,7	-3,66-	2,01	3,60	39	70
A11453,8	-3,87-	2,13	3,70	39	70
A11453,9	-3,87-	2,13	3,80	43	75
A11454	-3,80-	2,09	3,90	43	75
A11454,1	-3,98-	2,19	4,00	43	75
A11454,2	-3,94-	2,17	4,10	43	75
A11454,3	-4,34-	2,39	4,20	43	75
A11454,5	-4,16-	2,29	4,30	47	80
A11454,6	-4,29-	2,36	4,40	47	80
A11454,7	-4,29-	2,36	4,50	47	80
A11454,8	-4,54-	2,48	4,60	47	80
A11454,9	-4,68-	2,57	4,70	47	80
A11455	-4,60-	2,53	4,80	52	86
A11455,1	-5,24-	2,88	4,90	52	86
A11455,2	-5,17-	2,84	5,00	52	86
A11455,3	-5,09-	2,80	5,10	52	86
A11455,5	-5,75-	3,16	5,20	52	86

SPECS



MATERIALS



CODE	L23	HT	D mm	I mm	L mm
A11455,6	-5,67-	3,12	5,60	57	93
A11455,7	-6,24-	3,43	5,70	57	93
A11455,8	-6,02-	3,31	5,80	57	93
A11456	-6,12-	3,37	6,00	57	93
A11456,1	-6,59-	3,62	6,10	63	101
A11456,2	-6,59-	3,58	6,20	63	101
A11456,3	-6,24-	3,43	6,30	63	101
A11456,4	-6,68-	3,67	6,40	63	101
A11456,5	-6,59-	3,62	6,50	63	101
A11456,6	-7,16-	3,94	6,60	63	101
A11456,7	-7,02-	3,86	6,70	63	101
A11456,8	-7,69-	4,23	6,80	69	109
A11457	-7,42-	4,08	7,00	69	109
A11457,1	-7,96-	4,38	7,10	69	109
A11457,3	-8,52-	4,69	7,30	69	109
A11457,5	-8,36-	4,60	7,50	69	109
A11457,7	-9,19-	5,05	7,70	75	117
A11457,8	-9,16-	5,04	7,80	75	117
A11458	-8,85-	4,87	8,00	75	117
A11458,2	-9,64-	5,30	8,20	75	117
A11458,3	-9,47-	5,21	8,30	75	117
A11458,4	-9,92-	5,46	8,40	75	117
A11458,5	-9,76-	5,37	8,50	75	117
A11458,6	-11,05-	6,08	8,60	81	125
A11458,7	-10,86-	5,97	8,70	81	125
A11458,9	-16,08-	8,84	8,90	81	125
A11459	-14,54-	7,98	9,00	81	125
A11459,1	-16,08-	8,84	9,10	81	125
A11459,2	-16,08-	8,84	9,20	81	125
A11459,3	-16,33-	8,98	9,30	81	125
A11459,4	-16,33-	8,98	9,40	81	125
A11459,5	-16,33-	8,98	9,50	81	125
A11459,7	-17,94-	9,85	9,70	87	133
A11459,8	-19,26-	10,59	9,80	87	133
A114510	-17,22-	9,47	10,00	87	133
A114510,2	-21,85-	12,02	10,20	87	133
A114510,5	-22,56-	12,41	10,50	87	133
A114511	-25,60-	14,08	11,00	94	142
A114511,5	-28,24-	15,52	11,50	94	142
A114512	-31,37-	17,25	12,00	101	151
A114512,5	-24,83-	13,66	12,50	101	151
A114513	-25,27-	13,90	13,00	101	151

HIGH SPEED
REDUCTION OF CYCLE TIMES
LONG TOOL LIFE
FLEXIBILITY IN PROCESSING
CHAMFER FORM E



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	6HX	PM-K	DIN 2174 (D71-274)		TiN
TOOL TYPE	CHAMFER	DEPTH	ROTATION		
Forming	E 1,5/2	< 1,5xD	RH		

MATERIALS



CODE	L23	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	$\frac{1}{16}$ mm
A2362M3	-63,-40-	39,00	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2362M4	-64,-17-	38,00	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2362M5	-64,-17-	38,00	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2362M6	-64,-17-	38,00	M6	1	80	16	29	6	4,9	5	5,55
A2362M8	-76,-44-	47,00	M8	1,25	90	18	33	8	6,2	5	7,4
A2362M10	-96,-26-	60,00	M10	1,5	100	20	36	10	8	5	9,3

UNIVERSAL TOOL

TOLERANCE 6HX

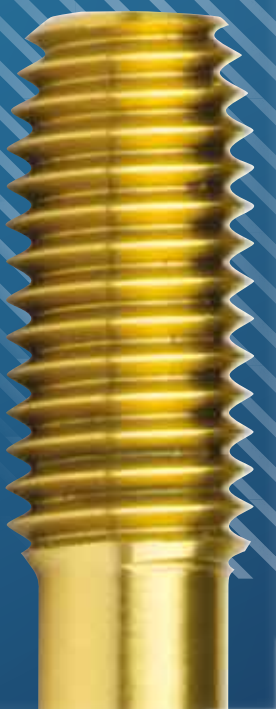
HOLE TYPE BLIND
AND THROUGH

SURFACE FINISH TIN

CARBON, STAINLESS STEEL
AND ALUMINUM ALLOYS

THREAD DEPTH < 1,5 XD

CHAMFER FORM E 1,5 / 2



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	6HX	HSSE	DIN 371 DIN 376		KX2
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	B 4/5	Straight	Spiral pointed	< 2,5xD	RH

MATERIALS



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	6HX	HSSE	DIN 371 DIN 376		KX2
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	C 2/3	Helical 40°	Spiral flutes	< 2,5xD	RH

MATERIALS



CODE	L23	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	$\frac{1}{16}$ mm
A2220M3	-34,-54-	19,55	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2220M4	-34,-54-	19,55	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2220M5	-34,-54-	19,55	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2220M6	-34,-54-	19,55	M6	1	80	16	29	6	4,9	3	5
A2220M8	-39,-34-	24,39	M8	1,25	90	18	33	8	6,2	3	6,8
A2220M10	-46,-34-	28,73	M10	1,5	100	20	36	10	8	3	8,5
A2220M12	-57,-15-	35,00	M12	1,75	110	25	-	9	7	3	10,2
A2220M14	-74,-10-	46,00	M14	2	110	25	-	11	9	3	12
A2220M16	-83,-46-	52,00	M16	2	110	28	-	12	9	3	14
A2220M18	-103,-40-	64,00	M18	2,5	125	32	-	14	11	4	15,5
A2220M20	-140,-20-	87,00	M20	2,5	140	32	-	16	12	4	17,5
A2225M3	-33,-65-	20,86	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2225M4	-33,-65-	20,86	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2225M5	-33,-65-	20,86	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2225M6	-33,-65-	20,86	M6	1	80	16	29	6	4,9	3	5
A2225M8	-41,-23-	25,56	M8	1,25	90	18	33	8	6,2	3	6,8
A2225M10	-49,-50-	31,00	M10	1,5	100	20	36	10	8	3	8,5
A2225M12	-61,-06-	38,00	M12	1,75	110	24	-	9	7	3	10,2
A2225M14	-80,-00-	50,00	M14	2	110	25	-	11	9	4	12
A2225M16	-89,-92-	56,00	M16	2	110	28	-	12	9	4	14
A2225M18	-142,-32-	70,00	M18	2,5	125	32	-	14	11	4	15,5
A2225M20	-148,-19-	92,00	M20	2,5	140	32	-	16	12	4	17,5

TAPS STANDARD - M



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	ISO 2 6H	HSSE	DIN 371 DIN 376		VAP
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	B 4/5	Straight	Spiral pointed	< 2.5x0	RH

MATERIALS



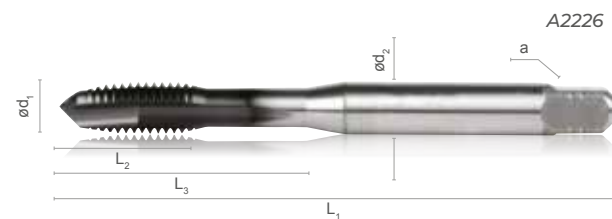
SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	ISO 2 6H	HSSE	DIN 371 DIN 376		VAP
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	C 2/3	Helical 40°	Spiral flutes	< 2.5x0	RH

MATERIALS



TAPS UNIVERSAL - M



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	6HX	HSSE	DIN 371 DIN 376		KX2
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	B 4/5	Straight	Spiral pointed	< 3x0	RH

MATERIALS



SPECS

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	COATING
M	6HX	HSSE	DIN 371 DIN 376		KX2
TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	DEPTH	ROTATION
Cutting	C 2/3	Helical 40°	Spiral flutes	< 3.5x0	RH

MATERIALS



	CODE	L23	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	 mm
DIN371	A2210M2	-25,18	15,61	M2	0,4	45	7	11	2,8	2,1	2	1,6
	A2210M2,5	-24,54	13,34	M2,5	0,45	50	9	15	2,8	2,1	3	2,05
	A2210M3	-24,39	13,26	M3	0,5	56	10	18	3,5	2,7	3	2,5
	A2210M4	-24,62	13,40	M4	0,7	63	12	21	4,5	3,4	3	3,3
	A2210M5	-23,06	14,30	M5	0,8	70	14	24,5	6	4,9	3	4,2
	A2210M6	-23,40	14,51	M6	1	80	16	29	6	4,9	3	5
	A2210M8	-26,63	16,51	M8	1,25	90	18	33	8	6,2	3	6,8
DIN376	A2210M10	-34,42	19,48	M10	1,5	100	20	36	10	8	3	8,5
	A2210M12	-43,23	26,80	M12	1,75	110	24	-	9	7	4	10,2
	A2210M14	-54,48	32,00	M14	2	110	25	-	11	9	4	12
	A2210M16	-56,49	35,00	M16	2	110	28	-	12	9	4	14
	A2210M18	-63,07	39,00	M18	2,5	125	32	-	14	11	4	15,5
	A2210M20	-88,69	55,00	M20	2,5	140	32	-	16	12	4	17,5
	A2210M22	-103,73	64,00	M22	2,5	140	32	-	18	14,5	4	19,5
DIN371	A2215M2	-25,52	15,82	M2	0,4	45	6	12	2,8	2,1	3	1,6
	A2215M2,5	-30,53	18,93	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
	A2215M3	-23,40	14,51	M3	0,5	56	7	15	3,5	2,7	3	2,5
	A2215M4	-23,40	14,51	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
	A2215M5	-24,40	15,13	M5	0,8	70	10	24,5	6	4,9	3	4,2
	A2215M6	-24,74	15,34	M6	1	80	12	29	6	4,9	3	5
	A2215M8	-28,63	17,75	M8	1,25	90	15	33	8	6,2	3	6,8
DIN376	A2215M10	-34,99	21,69	M10	1,5	100	17,5	38	10	8	3	8,5
	A2215M12	-43,23	26,80	M12	1,75	110	18	-	9	7	4	10,2
	A2215M14	-55,16	34,00	M14	2	110	20,5	-	11	9	4	12
	A2215M16	-64,17	38,00	M16	2	110	20,5	-	12	9	4	14
	A2215M18	-93,59	58,00	M18	2,5	125	25,5	-	14	11	4	15,5
	A2215M20	-104,18	65,00	M20	2,5	140	29,5	-	16	12	4	17,5
	A2215M22	-144,30	69,00	M22	2,5	140	29,5	-	18	14,5	4	19,5
DIN376	A2215M24	-122,78	76,00	M24	3	160	35,5	-	18	14,5	4	21
	A2215M27	-134,93	84,00	M27	3	160	37,5	-	20	16	5	24
	A2215M30	-167,80	104,00	M30	3,5	180	42	-	22	18	5	26,5

CODE	L23	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	 mm	
DIN371	A2226M3	-34,24	21,21	M3	0,5	56	10	18	3,5	2,7	3	2,5
	A2226M4	-36,90	22,88	M4	0,7	63	13	21	4,5	3,4	3	3,3
	A2226M5	-36,90	22,88	M5	0,8	70	13	24,5	6	4,9	3	4,2
	A2226M6	-37,28	23,11	M6	1	80	16	29	6	4,9	3	5
	A2226M8	-40,33	25,00	M8	1,25	90	18	33	8	6,2	3	6,8
	A2226M10	-50,67	31,00	M10	1,5	100	20	36	10	8	3	8,5
DIN376	A2226M12	-62,79	39,00	M12	1,75	110	25	-	9	7	4	10,2
	A2226M14	-85,95	53,00	M14	2	110	28	-	11	9	4	12
	A2226M16	-100,30	62,00	M16	2	110	28	-	12	9	4	14
DIN371	A2227M3	-35,52	22,02	M3	0,5	56	5	15	3,5	2,7	3	2,5
	A2227M4	-36,90	22,88	M4	0,7	63	7	21	4,5	3,4	3	3,3
	A2227M5	-36,90	22,88	M5	0,8	70	8	24,5	6	4,9	3	4,2
	A2227M6	-37,28	23,11	M6	1	80	10	29	6	4,9	3	5
	A2227M8	-42,10	26,10	M8	1,25	90	13	33	8	6,2	3	6,8
	A2227M10	-50,67	31,00	M10	1,5	100	15	38	10	8	3	8,5
DIN376	A2227M12	-62,79	39,00	M12	1,75	110	18	-	9	7	3	10,2
	A2227M14	-85,95	53,00	M14	2	110	20	-	11	9	3	12
	A2227M16	-100,30	62,00	M16	2	110	20	-	12	9	4	14

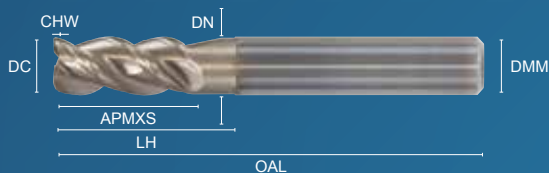
FOLLOW THE NEW PROGRAM KERFOLG UNIVERSAL



KERFOLG

END MILLS WITH VARIABLE PITCH Z3

NEW



SPECS

TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	DIRECTIONS	SHANK	CORNER	COATING	STANDARD
HPC	MTC	≠	$\lambda_s = 43^\circ/45^\circ$ $\gamma = 13^\circ$		DIN 6535 H9 DIN 6535 HA		PLATEX	

MATERIALS

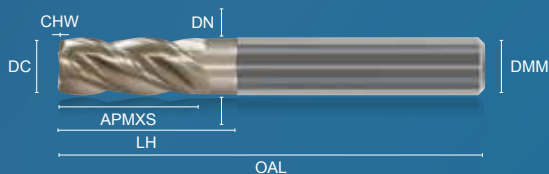


CODE	L23	HT *	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U3902	43,53	26,99	2	5	1,92	10	57	6	0,1	3
A4U3903	43,53	26,99	3	8	2,9	15	57	6	0,1	3
A4U3904	43,53	26,99	4	11	3,9	16	57	6	0,1	3
A4U3905	43,53	26,99	5	13	4,9	19	57	6	0,1	3
A4U3906	45,77	28,38	6	13	5,9	19	57	6	0,1	3
A4U3907	52,39	32,00	7	19	6,8	25	63	8	0,2	3
A4U3908	52,39	32,00	8	19	7,8	25	63	8	0,2	3
A4U3910	86,63	54,00	10	22	9,7	30	72	10	0,2	3
A4U3912	120,78	75,00	12	26	11,7	36	83	12	0,2	3
A4U3914	159,50	99,00	14	26	11,7	36	83	14	0,2	3

KERFOLG

END MILLS WITH VARIABLE PITCH Z4

NEW



SPECS

TOOL DESIGN	INDEX	ANGLES	DIRECTIONS	SHANK	CORNER	COATING	STANDARD
HPC	≠	$\lambda_s = 35^\circ/38^\circ$ $\gamma = 13^\circ$		DIN 6537 H9 DIN 6527 HA		PLATEX	

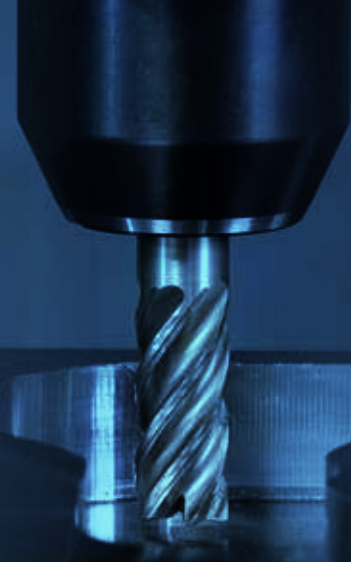
MATERIALS



CODE	L23	HT *	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4U4004	38,45	23,80	4	11	3,9	12	57	6	0,1	4
A4U4005	38,45	23,80	5	13	4,9	18	57	6	0,1	4
A4U4006	38,45	23,80	6	13	5,9	18	57	6	0,1	4
A4U4008	46,62	29,00	8	21	7,8	25	63	8	0,2	4
A4U4009	64,29	40,00	9	22	8,7	30	72	10	0,2	4
A4U4010	69,68	43,00	10	22	9,7	30	72	10	0,2	4
A4U4012	95,34	59,00	12	26	11,7	36	83	12	0,3	4
A4U4014	125,09	78,00	14	26	13,7	36	83	14	0,3	4
A4U4016	184,42	112,00	16	36	15,5	42	92	16	0,3	4
A4U4020	262,57	163,00	20	41	19,5	52	103	20	0,3	4

* The cutters are also available with Weldon shank for the same price

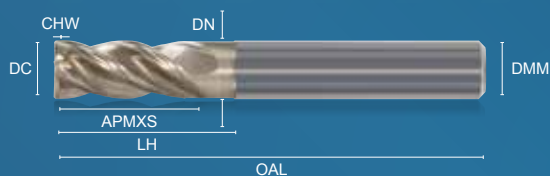
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KERFOLG

END MILLS WITH VARIABLE PITCH Z4

NEW



SPECS



MATERIALS

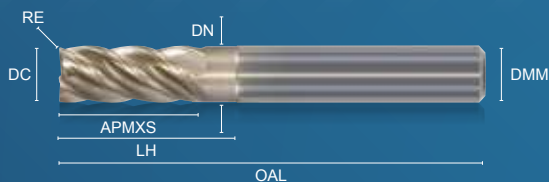


CODE	L23	HT *	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4U4704	52,86	33,00	4	11	3,9	12	57	6	0,1	4
A4U4705	53,83	33,00	5	13	4,9	18	57	6	0,1	4
A4U4706	55,27	34,00	6	13	5,9	18	57	6	0,1	4
A4U4708	66,72	41,00	8	21	7,8	25	63	8	0,2	4
A4U4710	89,49	55,00	10	22	9,7	30	72	10	0,2	4
A4U4712	114,54	71,00	12	26	11,7	36	83	12	0,3	4
A4U4714	137,14	85,00	14	26	13,7	36	83	14	0,3	4
A4U4716	200,00	124,00	16	36	15,5	42	92	16	0,3	4
A4U4720	346,99	196,00	20	41	19,5	52	103	20	0,3	4

KERFOLG

END MILLS WITH VARIABLE PITCH Z5

NEW



SPECS



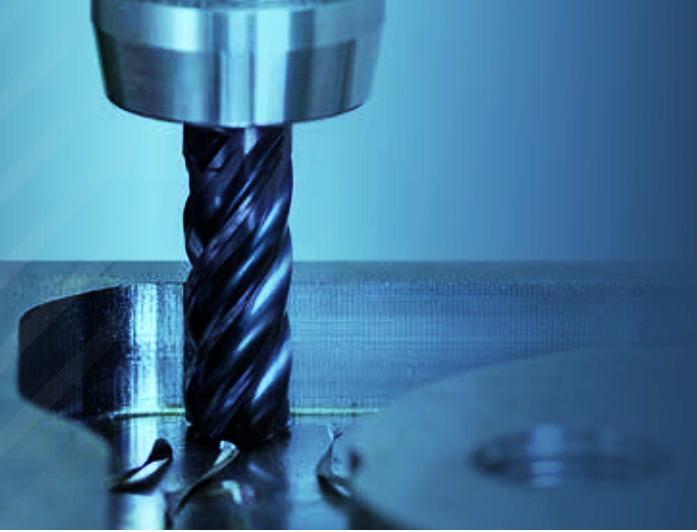
MATERIALS



CODE	GR05 €	HT *	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	RE mm	ZEFP
A4U5706	47,29	29,00	6	13	5,9	18	57	6	0,1	5
A4U5708	64,54	40,00	8	21	7,8	25	64	8	0,2	5
A4U5710	86,57	54,00	10	22	9,7	30	72	10	0,2	5
A4U5712	105,35	65,00	12	26	11,7	36	83	12	0,5	5
A4U5716	239,56	145,00	16	36	15,5	42	92	16	0,5	5
A4U5720	334,87	208,00	20	41	19,5	52	104	20	0,5	5

* The cutters are also available with Weldon shank for the same price

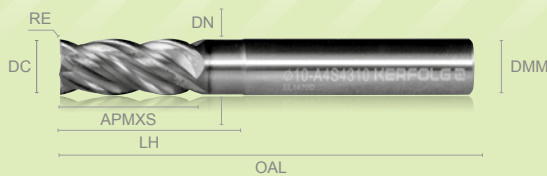
FOLLOW THE NEW PROGRAM KERFOLG STANDARD



KERFOLG

NEW

END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



CODE	L23	HT *	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S4303	-20,80-	12,90	3	8	2,8	12	57	6	4
A4S4304	-20,80-	12,90	4	11	3,8	15	57	6	4
A4S4305	-20,80-	12,90	5	13	4,8	17	57	6	4
A4S4306	-20,80-	12,90	6	13	5,8	21	57	6	4
A4S4308	-30,90-	19,16	8	19	7,7	27	63	8	4
A4S4310	-46,78-	29,00	10	22	9,7	32	72	10	4
A4S4312	-65,22-	40,00	12	26	11,6	38	83	12	4
A4S4316	-130,44-	81,00	16	32	15,5	44	92	16	4
A4S4320	-174,29-	106,00	20	38	19,5	54	104	20	4

KERFOLG

NEW

END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



CODE	L23	HT *	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S5303	-21,12-	13,09	3	8	2,8	12	57	6	0,15	4
A4S5304	-21,12-	13,09	4	11	3,8	15	57	6	0,15	4
A4S5305	-21,12-	13,09	5	13	4,8	17	57	6	0,15	4
A4S5306	-21,12-	13,09	6	13	5,8	21	57	6	0,2	4
A4S5308	-34,50-	19,53	8	19	7,7	27	63	8	0,2	4
A4S5310	-48,96-	30,00	10	22	9,7	32	72	10	0,3	4
A4S5312	-65,60-	41,00	12	26	11,6	38	83	12	0,3	4
A4S5316	-113,44-	70,00	16	32	15,5	44	92	16	0,3	4

KERFOLG

CORNER RADIUS END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



CODE	L23	HT *	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	RE mm	ZEFP
A4S160403	-29,77-	18,46	4	11	3,8	15	57	6	0,3	4
A4S160405	-48,90-	11,72	4	11	3,8	15	57	6	0,5	4
A4S160503	-29,77-	18,46	5	13	4,8	17	57	6	0,3	4
A4S160505	-29,77-	18,46	5	13	4,8	17	57	6	0,5	4
A4S160605	-28,90-	17,92	6	13	5,8	21	57	6	0,5	4
A4S160610	-28,90-	17,92	6	13	5,8	21	57	6	1	4
A4S160805	-38,38-	23,80	8	19	7,7	27	63	8	0,5	4
A4S160810	-38,78-	24,04	8	19	7,7	27	63	8	1	4
A4S161005	-55,00-	34,00	10	22	9,7	32	72	10	0,5	4
A4S161010	-55,00-	34,00	10	22	9,7	32	72	10	1	4
A4S161020	-57,37-	36,00	10	22	9,7	32	72	10	2	4
A4S161205	-68,30-	42,00	12	26	11,6	38	83	12	0,5	4
A4S161210	-68,30-	42,00	12	26	11,6	38	83	12	1	4
A4S161220	-70,35-	44,00	12	26	11,6	38	83	12	2	4

* The cutters are also available with Weldon shank for the same price

BUY **40** IDENTICAL BITS
AND GET **10** BITS FREE*

KERFOLG 

INSERTS FOR SQUARE SHOULDERING

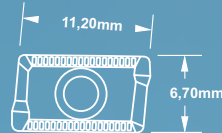
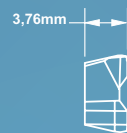
APKT 1003

Wall

MR

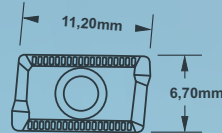
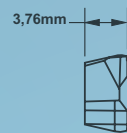
Medium Cutting

B4E21



WRK

B4E24

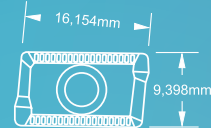
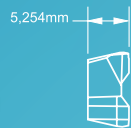


APKT 1604

MR

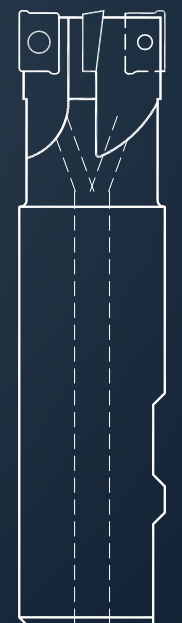
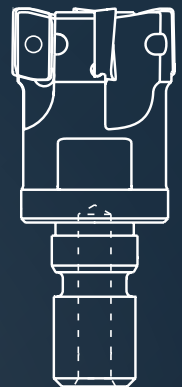
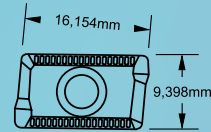
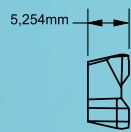
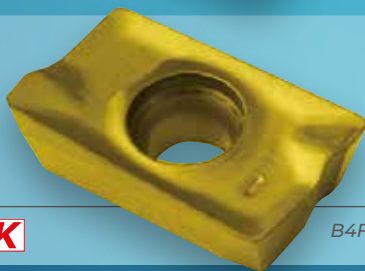
Medium Cutting

B4F21



WRK

B4F24



GEOMETRY AND CUTTING CONDITIONS

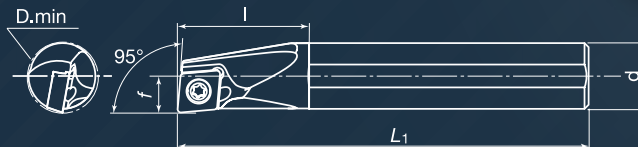
	Description	Grade	CODE	HT	<500 N/mm ²	<850 N/mm ²	<1200 N/mm ²	<600 N/mm ²	<850 N/mm ²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MR	APKT 1003PDR - MR	PT25	B4E2110MRPT25	15,65	○	○	●			●	●			○
MR	APKT 1003PDTR - MR	PT30	B4E2110MRPT30	13,80	●	●	●			●	○			○
MR	APKT 1003PDR - MR	PT35	B4E2110MRPT35	13,80	●	●	○	○	○	○	○		○	
MR	APKT 1003PDR - MR	PT35	B4E2410MRPT35	9,98	●	●	○	○	○	○	○		○	
MR	APKT 1604PDR - MR	PT25	B4F2116MRPT25	19,37	○	○	●			●	●			○
MR	APKT 1604PDR - MR	PT30	B4F2116MRPT30	16,35	●	●	●			●	○			○
MR	APKT 1604PDR - MR	PT35	B4F2116MRPT35	16,35	●	●	○	○	○	○	○		○	
MR	APKT 1604PDR - MR	PT35	B4F2416MRPT35	12,66	●	●	○	○	○	○	○		○	

* Every 40 inserts (same code tech) 10 inserts (same code tech) free

INTERNAL TURNING TOOLHOLDERS



Internal
turning



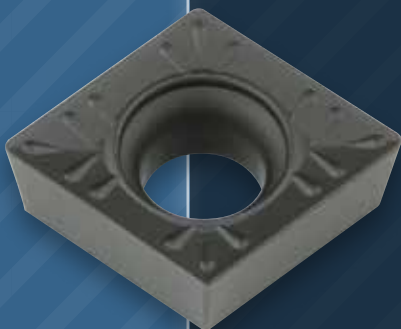
BIU15

CODE	HT	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U15R0806	99,23	A08H SCLCR 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15L0806	99,23	A08H SCLCL 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1006	102,53	A10K SCLCR 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1006	102,53	A10K SCLCL 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1206	104,74	A12L SCLCR 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1206	104,74	A12L SCLCL 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1609	121,64	A16Q SCLCR 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L1609	113,62	A16Q SCLCL 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2009	120,17	A20R SCLCR 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L2009	120,17	A20R SCLCL 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2512	167,58	A25R SCLCR 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15L2512	167,58	A25R SCLCL 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15R3212	237,04	A32S SCLCR 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L3212	237,04	A32S SCLCL 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15R4012	309,80	A40T SCLCR 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L4012	309,80	A40T SCLCL 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146

POSITIVE INSERTS

A...SCLCRL

C SHAPE

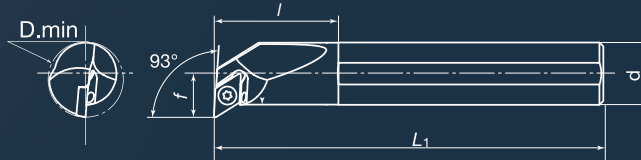


	Description	Grade	CODE	HT	P	M	K	N	S	H
FINISHING	FFP CCMT 060402-FFP	1010	B1C54CCFFP05	7,70	●	●	○			
	FFP CCMT 09T308-FFP	1010	B1C54CCFFP06	9,27	●	●	○			
	CFP CCMT 060202-CFP	4125	B1C55CCCFP10	7,04	●	○				
	CFP CCMT 060204-CFP	4115	B1C55CCCFP14	7,04	●	○				
	CFP CCMT 060204-CFP	4125	B1C55CCCFP11	8,00	●	○				
	CFP CCMT 09T302-CFP	4125	B1C55CCCFP15	8,00	●	○				
	CFP CCMT 09T304-CFP	4115	B1C55CCCFP16	7,47	●	○				
	CFP CCMT 09T304-CFP	4125	B1C55CCCFP12	8,54	●	○				
	CFP CCMT 09T308-CFP	4115	B1C55CCCFP17	8,54	●	○				
	CFP CCMT 09T308-CFP	4125	B1C55CCCFP13	8,54	●	○				
	CFP CCMT 09T308-CFP	4135	B1C55CCCFP18	8,54	●	○				
	CMP CCMT 060204-CMP	4115	B1C56CCCMP10	7,04	●	○				
MEDIUM CUTTING	CMP CCMT 060204-CMP	4125	B1C56CCCMP11	7,04	●	○				
	CMP CCMT 060204-CMP	4135	B1C56CCCMP23	8,00	●	○				
	CMP CCMT 060208-CMP	4115	B1C56CCCMP18	8,00	●	○				
	CMP CCMT 060208-CMP	4125	B1C56CCCMP20	8,00	●	○				
	CMP CCMT 060208-CMP	4135	B1C56CCCMP24	8,00	●	○				
	CMP CCMT 09T304-CMP	4115	B1C56CCCMP12	10,24	●	○				
	CMP CCMT 09T304-CMP	4125	B1C56CCCMP13	10,24	●	○				
	CMP CCMT 09T304-CMP	4135	B1C56CCCMP14	7,47	●	○				
	CMP CCMT 09T308-CMP	4115	B1C56CCCMP19	8,54	●	○				
	CMP CCMT 09T308-CMP	4125	B1C56CCCMP21	7,47	●	○				
	CMP CCMT 09T308-CMP	4135	B1C56CCCMP15	8,54	●	○				
	CMP CCMT 120404-CMP	4125	B1C56CCCMP16	10,90	●	○				
	CMP CCMT 120408-CMP	4125	B1C56CCCMP17	7,47	●	○				
	CMP CCMT 120412-CMP	4125	B1C56CCCMP22	7,47	●	○				
	SMP CCMT 060204-SMP	2125	B1C57CCSMP10	7,04	○	●				
	SMP CCMT 060208-SMP	2125	B1C57CCSMP12	8,00	○	●				
	SMP CCMT 09T304-SMP	2125	B1C57CCSMP11	7,47	○	●				
	SMP CCMT 09T304-SMP	2135	B1C57CCSMP13	8,54	○	●				
	SMP CCMT 09T308-SMP	2125	B1C57CCSMP14	8,54	○	●				
	SMP CCMT 09T308-SMP	2135	B1C57CCSMP15	8,54	○	●				
	SMP CCMT 120404-SMP	2125	B1C57CCSMP16	10,90	○	●				
	SMP CCMT 120408-SMP	2125	B1C57CCSMP17	10,90	○	●				
	SMP CCMT 120412-SMP	2125	B1C57CCSMP18	10,90	○	●				
	AFP CCGT 06021FN-AFP	NL10	B1C58CCAFP15	15,84			○	●	○	
	AFP CCGT 060202FN-AFP	NL10	B1C58CCAFP10	15,84			○	●	○	
	AFP CCGT 060204FN-AFP	NL10	B1C58CCAFP11	16,33			○	●	○	
	AFP CCGT 09T302FN-AFP	NL10	B1C58CCAFP12	16,33			○	●	○	
	AFP CCGT 09T304FN-AFP	NL10	B1C58CCAFP13	16,33			○	●	○	
	AFP CCGT 09T308FN-AFP	NL10	B1C58CCAFP14	16,07			○	●	○	
	AFP CCGT 120404FN-AFP	NL10	B1C58CCAFP16	16,38			○	●	○	
	AFP CCGT 120408FN-AFP	NL10	B1C58CCAFP17	16,38			○	●	○	

DISCOUNT TOOL **70%** BY PURCHASING **20 INSERTS**



Internal
turning



BIU25

CODE	HT	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U25R1007	99,23	A10K SDUCR 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1207	104,74	A12L SDUCR 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1607	113,62	A16Q SDUCR 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25R2011	125,69	A20R SDUCR 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R2511	156,56	A25R SDUCR 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R3211	228,22	A32S SDUCR11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25R4011	309,80	A40T SDUCR 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L1007	99,23	A10K SDUCL 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1207	104,74	A12L SDUCL 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1607	111,42	A16Q SDUCL 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25L2011	125,69	A20R SDUCL 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L2511	156,56	A25R SDUCL 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L3211	228,22	A32S SDUCL 11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L4011	309,80	A40T SDUCL 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

A...SDUCR/L

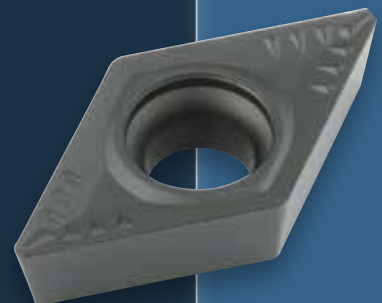
POSITIVE INSERTS

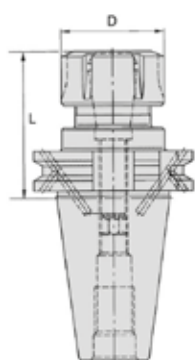
Description	Grade	CODE	HT	P	M	K	N	S	H
FFP DCMT 070204-FFP	1010	B1D55DCFFP05	7,70	●	●	○			
FFP DCMT 11T304-FFP	1010	B1D55DCFFP06	7,70	●	●	○			
CFP DCMT 070202-CFP	4125	B1D56DCCFP10	6,91	●	○				
CFP DCMT 070204-CFP	4115	B1D56DCCFP14	7,34	●	○				
CFP DCMT 070204-CFP	4125	B1D56DCCFP11	6,91	●	○				
CFP DCMT 11T302-CFP	4125	B1D56DCCFP15	9,36	●	○				
CFP DCMT 11T304-CFP	4125	B1D56DCCFP12	8,81	●	○				
CFP DCMT 11T308-CFP	4125	B1D56DCCFP13	8,81	●	○				
CMP DCMT 070204-CMP	4125	B1D57DCCMP10	6,91	●	○				
CMP DCMT 070204-CMP	4135	B1D57DCCMP11	6,91	●	○				
CMP DCMT 070208-CMP	4125	B1D57DCCMP18	7,34	●	○				
CMP DCMT 070208-CMP	4135	B1D57DCCMP19	7,34	●	○				
CMP DCMT 11T304-CMP	4115	B1D57DCCMP12	8,81	●	○				
CMP DCMT 11T304-CMP	4125	B1D57DCCMP13	8,81	●	○				
CMP DCMT 11T304-CMP	4135	B1D57DCCMP14	8,81	●	○				
CMP DCMT 11T308-CMP	4115	B1D57DCCMP15	8,81	●	○				
CMP DCMT 11T308-CMP	4125	B1D57DCCMP16	8,81	●	○				
CMP DCMT 11T308-CMP	4135	B1D57DCCMP17	8,81	●	○				
SMP DCMT 070204-SMP	2125	B1D58DCSMP10	6,91	○	●				
SMP DCMT 070208-SMP	2125	B1D58DCSMP13	7,34	○	●				
SMP DCMT 11T304-SMP	2125	B1D58DCSMP11	8,81	○	●				
SMP DCMT 11T304-SMP	2135	B1D58DCSMP14	9,36	○	●				
SMP DCMT 11T308-SMP	2125	B1D58DCSMP12	8,81	○	●				
SMP DCMT 11T308-SMP	2135	B1D58DCSMP15	9,36	○	●				
AFP DCGT 070201FN-AFP	NL10	B1D59DCAFP15	12,24			○	●	○	
AFP DCGT 070202FN-AFP	NL10	B1D59DCAFP10	11,63			○	●	○	
AFP DCGT 070204FN-AFP	NL10	B1D59DCAFP11	11,63			○	●	○	
AFP DCGT 070208FN-AFP	NL10	B1D59DCAFP16	12,24			○	●	○	
AFP DCGT 11T302FN-AFP	NL10	B1D59DCAFP12	13,61			○	●	○	
AFP DCGT 11T304FN-AFP	NL10	B1D59DCAFP13	13,61			○	●	○	
AFP DCGT 11T308FN-AFP	NL10	B1D59DCAFP14	13,61			○	●	○	

FINISHING

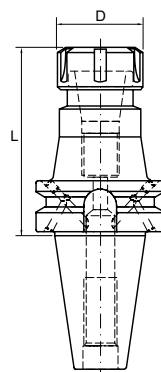
MEDIUM CUTTING

D SHAPE



ER COLLET CHUCKS


SK
40
G 6.3
12.000
rpm
AT3
TAPER



BT
40
G 6.3
12.000
rpm
AT3
TAPER

DIN69871 SK AD+B

CODE	L23	HT	SK	ER	D mm	L mm	Ring nut
C001043270	53,00	32,00	40	32	50	70	ER32

MAS 403 BT AD+B

CODE	L23	HT	BT	ER	D mm	L mm	Ring nut
C101043270	53,00	32,00	40	32	50	70	ER32

ER11 SPRING COLLETS SET


CODE	C412511SBOX
L23	464,60
HT	92,00
d	1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7
Pieces	10

ER16 SPRING COLLETS SET


CODE	C411116SBOX	C411116SBOX1
L23	492,20	425,60
HT	109,00	71,00
d	1 - 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
Pieces	12	8

ER20 SPRING COLLETS SET


CODE	C411220SBOX	C411220SBOX1
L23	295,90	74,90
HT	116,00	42,00
d	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13	4 - 6 - 8 - 10 - 12
Pieces	13	5

ER25 SPRING COLLETS SET


CODE	C411325SBOX	C411325SBOX1
L23	485,90	89,50
HT	105,00	50,00
d	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16	4 - 6 - 8 - 10 - 12 - 16
Pieces	15	6

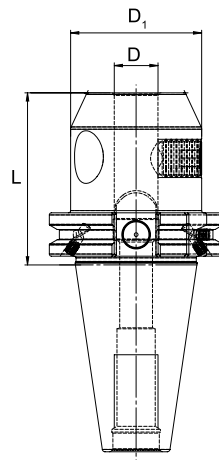
ER32 SPRING COLLETS SET


CODE	C411432SBOX	C411432SBOX1
L23	266,40	95,10
HT	151,00	54,00
d	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20	6 - 8 - 10 - 12 - 16 - 20
Pieces	18	6

ER40 SPRING COLLETS SET


CODE	C411540SBOX	C411540SBOX1
L23	467,10	406,20
HT	95,00	62,00
d	8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 25	6 - 8 - 10 - 12 - 16 - 20 - 25
Pieces	10	7

CODE	L23	HT	SK	D mm	L mm	D1 mm
C0046406050	44,50	36,00	40	6	50	25
C0046406100	49,50	43,00	40	6	100	25
C0046406160	100,50	86,00	40	6	160	25
C0046408050	39,50	34,00	40	8	50	28
C0046408100	46,00	39,00	40	8	100	28
C0046408160	94,00	81,00	40	8	160	28
C0046410050	39,50	34,00	40	10	50	35
C0046410100	46,00	39,00	40	10	100	35
C0046410160	94,00	81,00	40	10	160	35
C0046412050	39,50	34,00	40	12	50	42
C0046412100	46,00	39,00	40	12	100	42
C0046412160	94,00	81,00	40	12	160	42
C0046416063	39,50	34,00	40	16	63	48
C0046416100	46,00	39,00	40	16	100	48
C0046416160	94,00	81,00	40	16	160	48
C0046420063	39,50	34,00	40	20	63	52
C0046420100	46,00	39,00	40	20	100	52
C0046420160	94,00	81,00	40	20	160	52
C0046425100	46,00	39,00	40	25	100	63
C0046425160	102,50	88,00	40	25	160	63
C0046432100	48,00	41,00	40	32	100	72
C0046432160	106,00	91,00	40	32	160	72
C0046512063	58,50	50,00	50	12	63	42
C0046516063	58,50	50,00	50	16	63	48
C0046520063	58,50	50,00	50	20	63	52
C0046525080	65,00	56,00	50	25	80	63
C0046532100	72,00	62,00	50	32	100	72
C0046540100	76,50	66,00	50	40	100	80



SK
40

SK
50

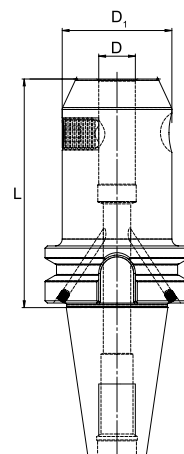
G 2.5
25.000
rpm

AT3
TAPER



DIN 69871 SK AD+B

CODE	L23	HT	BT	D mm	L mm	D1 mm
C1046406050	42,00	37,00	40	6	50	25
C1046406100	49,50	44,00	40	6	100	25
C1046408050	40,00	36,00	40	8	50	28
C1046408100	46,50	41,00	40	8	100	28
C1046410063	40,00	36,00	40	10	63	35
C1046410100	46,50	41,00	40	10	100	35
C1046412063	40,00	36,00	40	12	63	42
C1046412100	46,50	41,00	40	12	100	42
C1046416063	40,00	36,00	40	16	63	48
C1046416100	46,50	41,00	40	16	100	48
C1046420063	40,00	36,00	40	20	63	52
C1046420100	46,50	41,00	40	20	100	52
C1046425090	46,00	40,00	40	25	90	63
C1046432100	49,00	44,00	40	32	100	72
C1046512080	68,50	61,00	50	12	80	42
C1046516080	68,50	61,00	50	16	80	48
C1046520080	68,50	61,00	50	20	80	52
C1046525100	78,50	70,00	50	25	100	63
C1046532105	80,00	72,00	50	32	105	72
C1046540110	89,00	80,00	50	40	110	80



BT
40

BT
50

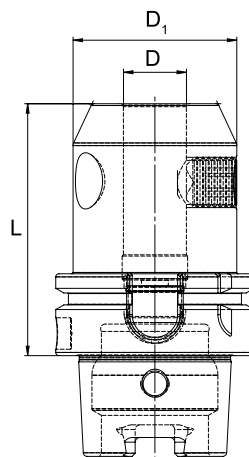
G 2.5
25.000
rpm

AT3
TAPER



MAS 403 BT AD+B

CODE	L23	HT	HSK	D mm	L mm	D1 mm
C2046606065	93,50	84,00	63	6	65	25
C2046608065	93,50	84,00	63	8	65	28
C2046610065	93,50	84,00	63	10	65	35
C2046612080	93,50	84,00	63	12	80	42
C2046616080	93,50	84,00	63	16	80	48
C2046620080	93,50	84,00	63	20	80	52
C2046625110	103,00	92,00	63	25	110	63
C2046632110	108,50	97,00	63	32	110	72
C2046106080	130,50	117,00	100	6	80	25
C2046108080	130,50	117,00	100	8	80	28
C2046110080	130,50	117,00	100	10	80	35
C2046112080	130,50	117,00	100	12	80	42
C2046116100	130,50	117,00	100	16	100	48
C2046120100	130,50	117,00	100	20	100	52
C2046125100	162,00	136,00	100	25	100	63
C2046132100	168,00	142,00	100	32	100	72
C2046140105	172,00	154,00	100	40	105	80



HSK
63

HSK
100

G 2.5
25.000
rpm



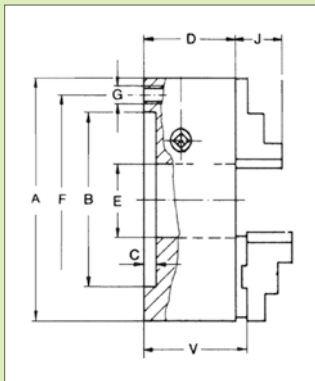
DIN 69893 HSK A

SELF-CENTERING CHUCKS

Manually operated self-centering chuck equipped with a flat spiral and a through hole. Mainly used on traditional horizontal and vertical lathes, milling machines and rotary tables. All-steel body, designed to ensure optimal accessibility. Reduced weight and level of inertia. High concentricity accuracy up to 0.02. Available in versions with cylindrical connection, short cone connection, Camlock, bayonet. Burnished jaws, ground under preload on the chuck to obtain greater precision.

APPLICATION:
Clamping of asymmetrical components for turning and milling.

EQUIPMENT:
Set of claws for inside and outside or set of base claws and reversible inserts operating key and fixing screws


3 JAWS

4 JAWS


CODE	L23	HT	A mm	B mm	E mm	C mm	D mm	V mm	J mm	G mm	F mm	Torque Nm	Force kN	Revolution min/max
C6230100	640,00	579,00	100	70	20	3	50	53,6	18	3 x M8	83	60	27	6300
C6230125	644,00	583,00	125	95	32	4	56	61	22,5	3 x M8	108	80	31	5500
C6230160	672,00	638,00	160	125	42	4	65	69,7	26	3 x M10	140	110	47	4600
C6230200	830,00	788,00	200	160	55	4	73,5	80,2	32,5	3 x M10	176	140	55	4000
C6230250	1.125,00	1.068,00	250	200	76	5	82	89,9	40	3 x M12	224	150	63	3000
C6230315	1.945,00	1.752,00	315	260	103	5	95	100,4	46	3 x M16	286	180	69	2300
C6231100	643,00	582,00	100	70	20	3	50	53,6	18	3 x M8	83	60	27	6300
C6231125	750,00	720,00	125	95	32	4	56	61	22,5	3 x M8	108	80	31	5500
C6231160	926,00	879,00	160	125	42	4	65	69,7	26	3 x M10	140	110	47	4600
C6231200	1.050,00	997,00	200	160	55	4	73,5	80,2	32,5	3 x M10	176	140	55	4000
C6231250	1.335,00	1.268,00	250	200	76	5	82	89,9	40	3 x M12	224	150	63	3000
C6231315	2.195,00	2.028,00	315	260	103	5	95	100,4	46	3 x M16	286	180	69	2300

KIT TOOL BOX FOR PROFESSIONALS

Kit tool box composed of:

HAND TAPS HSS DIN 352 / M3-M12

- For cutting internal threads
- Tested industrial quality

90° COUNTERSINKS HSS DIN 335 C / TIN / Ø 6,3-20,5 mm

- 100% defined cutting geometric
- Optimized chip removal
- Tested and reliable industrial quality

TWIST DRILLS HSS-G Ø 1-10,5 mm x 0,5 mm IN PASSI

- Universal twist drill for cordless drilling machines
- Ø 1,0-10,5 mm + Ø 3,3 / 4,2 / 6,8 / 10,2 mm (size for threading)
- For the most materials



CODE	L23	HT	Pieces
N5225SET3	480,00	99,00	51

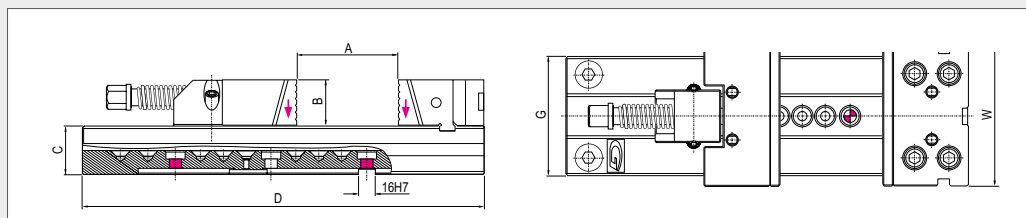


CLAMPING VICES STANDARD FLEX

Vice with quick manual jaw plate changeover without the need for tools (Comb system). Increased and improved pull-down action during clamping.

Included:

- Standard for 16 mm slot (other dimensions on request box wrench)
- T-wrench
- Ground and calibrated holes with an F7 tolerance F7

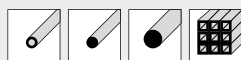


CODE	L23	HT	Mod mm	A mm	B mm	C mm	D mm	W mm	G mm	Kg
C6302150121	898,00	765,00	150 x 121	150	38	40	345	121	95	12,9
C6302200146	1.079,00	815,00	200 x 146	200	48	50	420	146	125	25,5
C6302200171	1.372,00	1.170,00	200 x 171	200	58	58	455	171	145	37
C6302300146	1.245,00	925,00	300 x 146	300	48	50	520	146	125	29
C6302300171	1.509,00	1.200,00	300 x 171	300	58	58	555	171	145	42
C6302400171	1.646,00	1.300,00	400 x 171	400	58	58	655	171	145	47
C6302500171	1.754,00	1.575,00	500 x 171	500	58	58	755	171	145	52

BASIC UNIFLEX



Suitable for medium alloy steels
on small sections



P	M	K	N	S	H	C
●	○	○	-	-	-	-

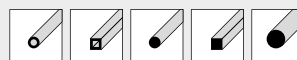
MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

Length mm	Tooth pitch 5/8	HT	Tooth pitch 6/10	HT	Tooth pitch 8/12	HT
2450	A7007245058	18,91	A70072450610	18,91	A70072450812	18,91
2480	A7007248058	19,11	A70072480610	19,11	-	-
2500	A7007250058	19,24	A70072500610	19,24	-	-
2590	A7007259058	19,82	-	-	-	-
2600	-	-	A70072600610	19,89	-	-
2700	A7007270058	20,54	A70072700610	20,54	-	-
2750	A7007275058	20,86	A70072750610	20,86	-	-
2760	A7007276058	20,93	-	-	-	-
2765	A7007276558	20,96	-	-	-	-
2825	A7007282558	21,35	A70072825610	21,35	A70072825812	21,35
2845	A7007284558	21,48	-	-	-	-
2880	A7007288058	21,71	-	-	-	-
2925	A7007292558	22,00	-	-	-	-
2945	A7007294558	22,13	A70072945610	22,13	-	-
2950	A7007295058	22,16	A70072950610	22,16	A70072950812	22,16
3010	A7007301058	22,55	A70073010610	22,55	-	-
3120	A7007312058	23,27	A70073120610	23,27	-	-
3150	A7007315058	23,46	A70073150610	23,46	-	-
3320	A7007332058	24,57	-	-	-	-
3660	A7007366058	26,78	-	-	-	-

BASIC PLUS UNIFLEX



Suitable for medium alloy steels
on medium sections



P	M	K	N	S	H	C
●	○	○	-	-	-	-

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	●	○	-

Length mm	Tooth pitch 3/4	HT	Tooth pitch 4/6	HT
2450	A7015245034	18,91	A7015245046	18,91
2480	-	-	A7015248046	19,11
2590	-	-	A7015259046	19,82
2700	-	-	A7015270046	20,54
2750	-	-	A7015275046	20,86
2825	-	-	A7015282546	21,35
2845	A7015284534	21,48	A7015284546	21,48
2925	A7015292534	22,00	A7015292546	22,00
2945	A7015294534	22,13	-	-
2950	-	-	A7015295046	22,16
3010	A7015301034	22,55	A7015301046	22,55
3100	A7015310034	23,14	A7015310046	23,14
3120	A7015312034	23,27	A7015312046	23,27
3150	A7015315034	23,46	A7015315046	23,46
3180	A7015318034	23,66	A7015318046	23,66
3225	-	-	A7015322546	23,95
3270	A7015327034	24,24	A7015327046	24,89
3320	A7015332034	24,57	A7015332046	24,57
3370	-	-	A7015337046	24,24
3660	A7015366034	26,78	A7015366046	26,78

+5

BAND SAW BLADES FREE

same code tech

GUABO

STANDARD-PRODUCTION BLADES

BASIC PERFORMANCE



Wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC



P	M	K	N	S	H	C
●	○	○	○	-	○	-

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

	Length mm	Tooth pitch 5/8	HT	Tooth pitch 6/10	HT	Tooth pitch 8/12	HT
27 x 0.9 mm - 5	2450	A7024245058	23,07	A70242450610	23,07	-	-
	2500	A7024250058	23,48	A70242500610	23,48	-	-
	2590	A7024259058	24,21	-	-	-	-
	2600	A7024260058	24,29	-	-	-	-
	2700	A7024270058	25,10	-	-	-	-
	2750	A7024275058	25,50	A70242750610	25,50	A70242750812	25,50
	2765	A7024276558	25,62	-	-	-	-
	2825	A7024282558	26,11	A70242825610	26,11	-	-
	2845	A7024284558	26,27	A70242845610	26,27	-	-
	2925	A7024292558	26,92	-	-	-	-
	2945	A7024294558	27,08	A70242945610	27,08	-	-
	2950	A7024295058	27,12	A70242950610	27,12	A70242950812	27,12
	3010	A7024301058	27,60	A70243010610	27,60	A70243010812	27,60
	3120	A7024312058	28,49	A70243120610	28,49	-	-
	3150	A7024315058	28,74	A70243150610	28,74	A70243150812	28,74
	3180	A7024318058	28,98	-	-	-	-
	3200	A7024320058	29,14	-	-	-	-
	3320	A7024332058	30,11	A70243320610	30,11	-	-
	3660	A7024366058	32,87	-	-	-	-

BASIC PLUS PERFORMANCE



Wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC



P	M	K	N	S	H	C
●	○	○	○	-	○	-

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	○	●	●	-

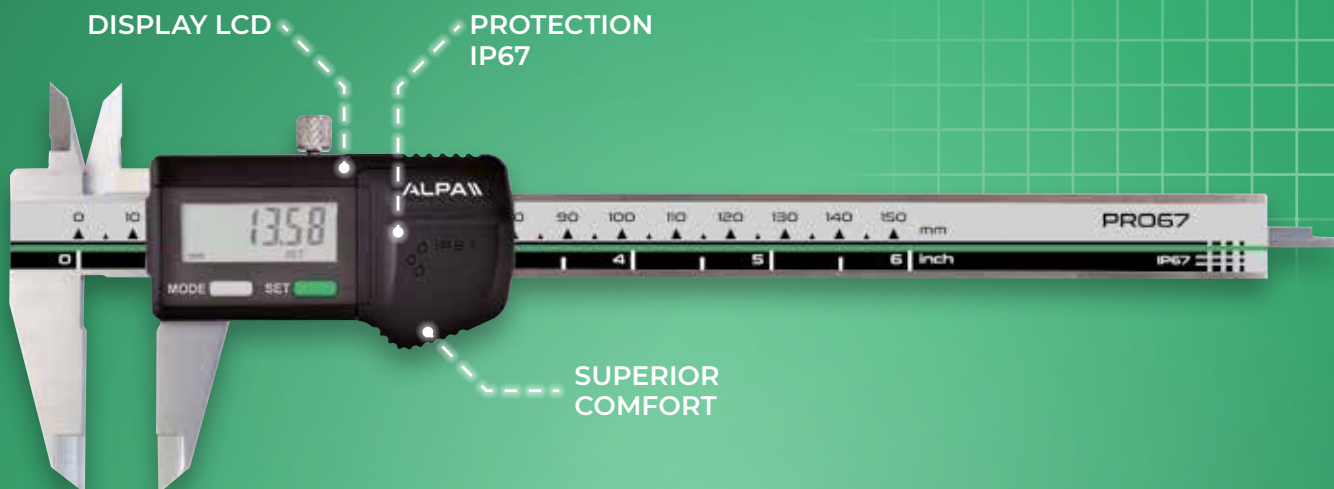
	Length mm	Tooth pitch 2/3	HT	Tooth pitch 3/4	HT	Tooth pitch 4/6	HT
27 x 0.9 mm - 5	2450	-	-	A7021245034	23,07	A7021245046	23,07
	2500	-	-	-	-	A7021250046	23,48
	2590	-	-	-	-	A7021259046	24,21
	2600	-	-	-	-	A7021260046	24,29
	2650	-	-	-	-	A7021265046	24,69
	2700	-	-	-	-	A7021270046	25,10
	2750	-	-	A7021275034	25,50	A7021275046	25,50
	2765	-	-	-	-	A7021276546	25,62
	2825	-	-	-	-	A7021282546	26,11
	2845	-	-	A7021284534	26,27	A7021284546	26,27
	2950	-	-	A7021295034	27,12	A7021295046	27,12
	3010	A7021301023	27,60	A7021301034	27,61	A7021301046	27,60
	3100	-	-	A7021310034	28,34	-	-
	3120	-	-	A7021312034	28,49	A7021312046	28,49
	3150	-	-	A7021315034	28,74	A7021315046	28,74
	3180	-	-	A7021318034	28,98	A7021318046	28,98
	3200	-	-	A7021320034	29,14	-	-
	3225	-	-	-	-	A7021322546	29,34
	3320	-	-	A7021332034	30,11	A7021332046	30,11
	3370	-	-	-	-	A7021337046	30,52
	3505	-	-	-	-	A7021350546	31,61
	3660	A7021366023	32,87	A7021366034	32,87	A7021366046	32,87
	3900	-	-	-	-	A7021390046	34,80
	4600	-	-	A7021460034	40,47	-	-

METROLOGY



ALPA PRO67

DIGITAL CALIPERS IP67



0.01mm resolution

Digital caliper with electronics of a very high degree of protection against particles and liquids, even while in temporary submersion. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position.

Measuring range	150 mm - 6"
Resolution	0,01 mm - 0,0005"
Max error	DIN 862
Repeatability	0,0311mm / 0,0015" (150 mm - 6")
Slider speed	max 1.5 m/s - 60"/s
Storage temperature	-10°C / +60° C
Working temperature	+5°C / +40°C
Protection	IP67 (IEC 605291)



CODE	L23	HT	Range mm	Rod
D0007150T	444,00	112,00	0 ÷ 150	●
D0007150P	444,00	111,00	0 ÷ 150	■
D0007200	485,00	148,00	0 ÷ 200	■
D0007300	296,00	190,00	0 ÷ 300	■

ALPA ABSolutus

DIGITAL CALIPERS IP54
WITH ABSOLUTE FUNCTION



CODE	L23	HT	Range mm	Rod
D0009150P	80,00	64,00	0 ÷ 150	■
D0009150T	80,00	64,00	0 ÷ 150	●
D0009200	112,00	97,00	0 ÷ 200	■
D0009300	158,00	139,00	0 ÷ 300	■

ALPA

DIGITAL CALIPERS
WITH PRESET



CODE	L23	HT	Range mm
D0024150	62,00	42,00	0 ÷ 150
D0024200	76,00	64,00	0 ÷ 200
D0024300	120,00	96,00	0 ÷ 300

ALPA MEGAwhez

DIGITAL MICROMETERS IP67

Non-rotating spindle
Ø 6,5 mm

Fast movement
10 mm / rotation

Proximity
USB or RS connection



CODE	L23	HT	Range mm
D1111000030	451,00	444,00	0 ÷ 30
D1111030060	649,00	663,00	30 ÷ 66
D1111066102	862,00	795,00	66 ÷ 102

Repeatability	0,001 mm
Measuring force	0-25/30 mm Adjustable 5N/10N
Measuring force	Long ranges 10N standard
Measuring system	S.I.S (patented)
Power consumption	60 µA
Battery life	10'000 H
Working temperature	from + 5° to + 40°C / from + 41 to + 104°F

ALPA Exacto

DIGITAL MICROMETERS IP65



CODE	L23	HT	Range mm	CODE	L23	HT	Range mm
D1110000025	441,00	112,00	0 ÷ 25	D1110150175	339,00	266,00	150 ÷ 175
D1110025050	465,00	132,00	25 ÷ 50	D1110175200	355,00	284,00	175 ÷ 200
D1110050075	222,00	196,00	50 ÷ 75	D1110200225	399,00	342,00	200 ÷ 225
D1110075100	265,00	235,00	75 ÷ 100	D1110225250	426,00	341,00	225 ÷ 250
D1110100125	282,00	248,00	100 ÷ 125	D1110250275	453,00	362,00	250 ÷ 275
D1110125150	297,00	258,00	125 ÷ 150	D1110275300	480,00	384,00	275 ÷ 300

ALPA Exacto

DIGITAL MICROMETERS



CODE	L23	HT	Range mm
D111225	96,00	78,00	0 ÷ 25
D111250	120,00	96,00	25 ÷ 50

ALPA

MICROMETER HOLDER BASE

CODE	Material	Dimension mm
D12501	Cast Iron	165 x 115



€ 28,00

D12501

FAST ACTION DIGITAL MICROMETERS SET BLUETOOTH - IP67

Internal micrometers Bowers series XTH in kits. In this way it is possible to save on the costs of the rings. A ring can calibrate two instruments. Each composition is supplied with calibration rings and UKAS calibration certificate relative to both.



CODE	L23	HT	Range mm	Measuring heads pcs	Setting ring pcs
D1286006010SET	4.776,00	1.454,00	6 ÷ 10	2	1
D1286006020SET	2.745,60	2.196,00	6 ÷ 20	5	3
D1286010020SET	2.294,30	1.833,00	10 ÷ 20	3	3
D1286020050SET	2.978,80	2.380,00	20 ÷ 50	3	3
D1286020100SET	4.892,80	3.914,00	20 ÷ 100	6	4
D1286050100SET	3.324,20	2.659,00	50 ÷ 100	3	2
D1286100150SET	2.978,80	2.383,00	100 ÷ 150	2	1
D1286100200SET	6.299,70	5.262,00	100 ÷ 200	4	2
D1286150200SET	3.955,60	3.165,00	150 ÷ 200	2	1

BLUETOOTH CONNECTION DEVICE

Required for connecting to PC and laptop.



€ 15,00
1274021

ALPA

THREE POINTS INTERNAL MICROMETERS SET

Complete with zero-setting rings and extension rods (100 mm -150 mm).



PRECISION

Thanks to the three measuring points, the instrument centres itself within the bore to be measured



CODE	L23	HT	Range mm	Single tools mm	Rings Ø mm	Extension mm
D1315006012	742,00	615,00	6 ÷ 12	6-8 / 8-10 / 10-12	6 / 8 / 10	100
D1315012020	480,00	384,00	12 ÷ 20	12-16 / 16-20	16	150
D1315020040	900,00	720,00	20 ÷ 40	20-25 / 25-30 / 30-40	25 / 40	150
D1315040100	4.760,00	1.408,00	40 ÷ 100	40-50 / 50-63 / 62-75 75-88 / 87-100	40 / 62 / 87	150

SET TAMPONI LISCI P/NP

Set di tamponi lisci P/NP in acciaio temprato. Tolleranza H7.
Forniti in valigetta di legno.



CODE	L23	HT	Composizione set ø mm	Pezzi
D551615	790,00	632,00	32-34-35-36-38-40-42-44 46-48-50-52-55-58-60	15
D551626	830,00	664,00	3-4-5-6-7-8-10-11-12-13 14-15-16-17-18-20-21-22 23-24-25-26-27-28-29-30	26

GAUGE BLOCK SETS

Steel gauge blocks. Hardness 64HRC.
Compliant with ISO 3650 DIN861.



CODE	HT	CODE	HT	Degree of accuracy	No. of pieces
D57101030	926,00	D58101030	1.600,00	0	103
D57101031	600,00	D58101031	1.320,00	1	103
D57101032	344,00	-	-	2	103
D5710870	711,00	D58100870	1.390,00	0	87
D5710871	480,00	D58100871	1.150,00	1	87
D5710872	273,00	-	-	2	87
D5710470	540,00	D58100470	880,00	0	47
D5710471	312,00	D58100471	680,00	1	47
D5710472	197,00	-	-	2	47
D5710320	397,00	D58100320	620,00	0	32
D5710321	229,00	D58100321	490,00	1	32
D5710322	159,00	-	-	2	32



DIGITAL PROTRACTOR/ INCLINOMETERS



CODE	L23	HT	Dimension mm	Accuracy	Repeatability
D47101	408,00	85,00	150 x 30 x 50	0° - 10° ± 0,1° 10° - 90° ± 1,5%	± 0,1°

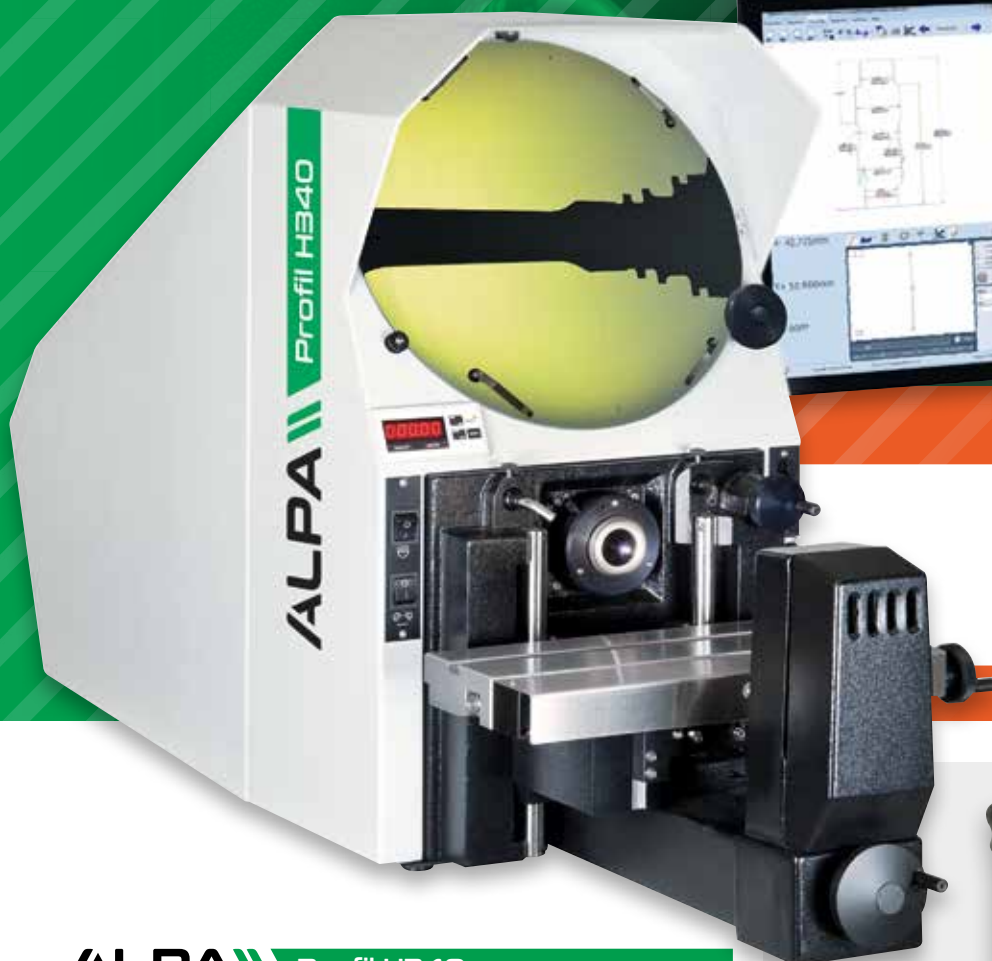
MINI DIGITAL INCLINOMETERS WITH MAGNETIC FIXING SYSTEM



CODE	L23	HT	Dimension mm	Resolution	Accuracy	Repeatability
D471501	67,00	60,00	50 x 50 x 32	0,10°	±0,20°	± 0,10°

ALPA

Measuring instruments



€ 15.900 ,00

D7954FT2E

INCLUDED

**INSTALLATION,
TRAINING AND 1 LENS
OF YOUR CHOICE**

ALPA Profil H340

HORIZONTAL PROFILE PROJECTOR

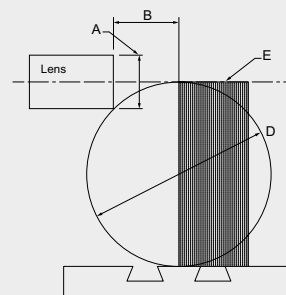
The horizontal light path configuration is ideal for checking machined components, small and medium dimension cylindrical components and others like screws, bolts, molds, etc. that can be secured to the workstage using a range of optional accessories from the ALPA fixture family. The robust design of the Profile projector makes it suitable for both the shop floor and inspection room. Profile illumination with halogen lamp and green filter. Surface illumination with fibre optic.

Measuring range	175 x 100 mm
Surface area	325 x 100 mm
Swivel screen	340 mm
Image	Reverse and inverted
Max load	10 kg
Movement	Manual, micrometric and rapid manual on the X axis
Scale resolution	0,0005 mm
Light source	Tungsten halogen lamps 12v 100w
Magnification accuracy	Profile 0.05% Surface area 0.1%
Helix adjustment	± 7°



INTERCHANGEABLE LENSES

CODE		A Ø mm	B mm	D mm	E mm
1289711	x10	34	81	100	100
1163044	x20	17	38,5	100	100
1144290	x50	6,8	15,5	44	44



A: Field of view | B: Lens working distance | C: Full field | D: Half field | E: Max piece height

LUBRICANTS



BORON-CHLORINE AND FORMALDEHYDE RELEASER-FREE SEMI-SYNTHETIC FLUIDS



Compatible with water hardness from 0 a 30°f

Excellent health and safety properties and operator acceptability

Excellent grinding wheel cleaning

Excellent cleaning of work areas

Long emulsion life

Low foaming in the recommended water hardness range



UNITEC 520
universal light machining

APPLICATIONS	K	INOX	P <850	P <1200	Al	Mg	Cu	Ti	Recommended concentration
Grinding	●●●	●	●●	●●	●	●	●	○	2,5 - 5 %
Turning	●●	○	●●	●●	●	●	●	○	5 - 8 %
Drilling	●	○	●	●	●	●	●	○	5 - 10 %
Drilling, boring	●	○	○	○	○	○	○	○	5 - 10 %

CODE	L23	HT	Quantity L	Appearance concentrated	Appearance emulsion	Refractometric factor	Density DIN 52757 kg/L	pH (5%) DIN 51369	Storage temperature °C
H01255	55,90	35,00	5	Amber	Translucent	1,9	1,010	9,80	from 10 to 40
H012520	467,90	120,00	20	Amber	Translucent	1,9	1,010	9,80	from 10 to 40
H0125200	4.390,90	999,00	200	Amber	Translucent	1,9	1,010	9,80	from 5 to 40

LTEC Oxi

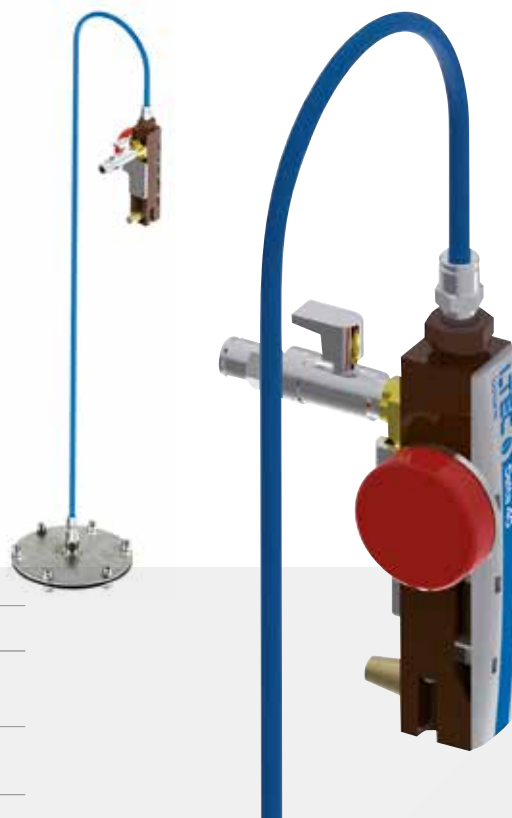
EMULSION OXYGENATORS

OXI COOLER is a combined oxygenation and cooling system featuring a DELTA 40 cooling unit, which can also be mounted onto a TOS 2.0 tramp oil separator so to accelerate separation of lubricant oil from emulsion itself.

The flux valve is designed to optimise cooling air flux in relation to tank emulsion levels.

ADVANTAGES:

- Longer emulsion life without chemical supplement
- Enhanced tool performance
- Preventing unpleasant odours due to microbial metabolism
- Emulsion provide from oxygenation kept at optimum PH levels.
- Gradually inhibits bacterial growth
- Protecting ferrous alloys against oxidation
- Cooled down emulsion ensures reduced fume and fog
- Significantly reduced cost of disposal



CODE	L23	HT	Pressure Bar	Outlet. Temp °C	Air NL/min.	Weight kg
H3266OXI	299,90	260,00	1,5	- 8,0	46	1,2
			3	-18,5	80	
			4	-21,5	100	
			5	-23,0	125	
H3266OXM	789,90	710,00	5	- 16	633	1,9
			6	-17	783	
			7	-19	900	

BIOCIDAL ADDITIVE FORMALDEHYDE FREE

ACTICIDE SPX is a broad spectrum bactericidal product that can be used on any type of emulsion. The ACTICIDE SPX bactericide is a specific formulation to counteract the degradation phenomena caused by bacterial proliferation that cause bad odors in systems such as emulsions and washing waters.

€ 103,00

H35145

ADVANTAGES:

- Broad spectrum of action
- High efficacy
- Easy to use
- Eliminates bacteria and bad smells

Recommended concentrations: 100 mL every 100 litres



CODE	Quantity kg	Appearance Concentrated	Density kg/L	pH (5%) DIN 51369	Solubility	Storage temperature °C
H35145	5	Straw coloured	1,060	6,4	complete in water	10 - 40

LTEC Clean Sump
MACHINE TOOL CLEANING FLUIDS

CLEAN SUMP is a detergent for cleaning and sanitizing machine tools before the cooling lubricant it replaced.

Its powerful additives give it an excellent capacity to solubilise sludge and degrease surfaces. CLEAN SUMP tank detergent allows you to continue working even after it has been added, without affecting the stability of the cooling lubricant.

20 L
€ 90,00

H351020

10 L
€ 48,00

H351010

ADVANTAGES AND USES:

- Excellent tank cleaning capacity
- Excellent sludge solubilisation capacity
- Excellent capacity to sanitize machine tools
- Reduces the amount of spent emulsions to be disposed of
- Used in the emulsion prior to disposal



CODE	Quantity L	Appearance concentrated	Density DIN 52757 kg/L	pH (5%) DIN 51369	Flash point ASTM D92 °C	Solubility	Storage temperature °C
H351010	10	Straw coloured	1,065	12,5	>100	Soluble in water Partially soluble in acetone	from 10 to 40
H351020	20	Straw coloured	1,065	12,5	>100	Soluble in water Partially soluble in acetone	from 10 to 40

TRAMP OIL SEPARATORS

... Machine contamination, Pieces contamination,
No cleaning power of the emulsion, Frequent emulsion changes ...

With **TOS** you can avoid
these problems quickly



TOTALLY AUTOMATIC

NO SUPERVISION NEEDED

PLUG - PLAY - SET - GO

€ 3.099 ,00

H4000TOS2.0



250 L/h
nominal
flow rate
aspirated



105 L
capacity



MAX 60°
suction fluid
temperature

Dirty Emulsion
bad smell



0'



Clean Emulsion
no smell



45'

MRO



SOCKETS 1/4"

SET TOOLS

€ 81,00

E489044



SET 44 TOOLS

1/6



WX2040	Reversible ratchets 1/4"
WX2000	Socket wrenches 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle with 1/4" square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x100 mm
WX2054	Cardan joint 1/4"
WX2047	Screwdriver adaptor 1/4"
WX4642	Adaptor for socket bits 1/4" Hexagonal connection 1/4" x 25mm
WX4640	Socket hexagonal bits holders 1/4"
WX4400	Bits 1/4"x25 Phillips* PH1 - PH2 - PH3
WX4415	Bits 1/4"x25 Pozidriv* PZ1 - PZ2 - PZ3
WX4430	Bits 1/4"x25 Slotted 3,0 - 4,0 - 4,5 - 5,5 - 6,5 mm
WX4445	Bits 1/4"x25 Hexagonal HEX 3 - 4 - 5 - 6 - 8 mm
WX4475	Bits 1/4"x25 Torx* T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40



€ 83,00

E489255



SET 55 TOOLS

1/6



WX2045	Stubby reversible ratchet 1/4"
WX2000	Socket wrenches 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX4642	Adaptor for socket bits 1/4" Hexagonal connection 1/4" x 25mm
WX4640	Socket hexagonal bits holders 1/4"
WX4630	Bits holders 1/4" - 1/4"x60 mm
WX4620	Bit holder screwdriver quick-release 1/4"
WX4400	Bits 1/4"x25 Phillips* PH1 - PH2 - PH3
WX4415	Bits 1/4"x25 Pozidriv* PZ1 (3) - PZ2 (3) - PZ3 (1)
WX4430	Bits 1/4"x25 Slotted 4 (1) - 4,5 (1) - 5,5 (2) - 6,5 (2) mm
WX4445	Bits 1/4"x25 Hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX4475	Bits 1/4"x25 Torx* T10 - T15 - T20 - T25 - T30 - T40
WX4505	Bits 1/4"x25 Tamper Torx* T10 - T15 - T20 - T25 - T30 - T40





EMPTY CASE

€ 144,00

F705000



EMPTY CASE

€ 286,00

F710000



CASE
+ 62 TOOLS

€ 275,00

F705262



CASE
+ 51 TOOLS

€ 475,00

F710251

SERVICE KIT 62 TOOLS

WX9200	Wheeled service tool case
WX4070	Stubby screwdrivers for Phillips screws PH1 - PH2
WX4020	Stubby screwdrivers for slotted screws 5.5x1.0 - 6.5x1.2 mm
WX3050	Universal combination pliers 160 mm
WX5100	Hammer 400g with wooden handle
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050	Screwdrivers for Phillips screws PH1x80 - PH2x100 - PH3x150 mm
WX3290	Adjustable pliers 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4650	Cutter with snap-off blades 9 mm
WX3350	Self-locking pliers, adjustable up to 240 mm
WX4770	Electrician's scissors 155 mm
WX4190	Voltage tester 105-250 Volt 3-70 mm
WX2580/S9	Hex key set, long, 9-piece
WX4590/31	Insert bit set 1/4"

SERVICE KIT 51 TOOLS



WX9250	Wheeled service tool case TSA
WX1060	Combination wrenches 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 22 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4050	Screwdrivers for Phillips screws PH0x60 - PH1x80 - PH2x100 mm
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4770	Electricians scissors 155 mm
WX4680	Cutter with snap-off blades 18 mm
WX4622	Stubby screwdriver in set of 7 bits
WX3300	Adjustable pliers for pipes 250 mm
WX5100	Hammer 300 g with wooden handle
WX5400	Mallet with nylon head Ø 32 mm
WX2602/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 160 mm
WX3600	Diagonal cutting nippers 125 mm
WX3350	Self-locking adjustable pliers 240 mm

WHEELED SERVICE TOOL CASES

WODEX



EMPTY CASE

€ 380,00

F715500



EMPTY CASE

€ 380,00

F715500



CASE
+ 51 TOOLS

€ 555,00

F715751



CASE
+ 45 TOOLS

€ 560,00

F715945

MECHANICS KIT 51 TOOLS



WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2600/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 180 mm
WX3200	Half round nose pliers 200 mm
WX3300	Adjustable pliers for pipes 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4770	Electricians scissors 155 mm
WX6610	LED PEN-LIGHT torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4000	Screwdrivers for slotted screws 3x75 - 4x100 - 5.5x100 - 6.5x125 8x175 mm
WX4050	Screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 - PH3x150 mm
WX4622	Stubby screwdriver in set of 7 bits

ELECTRICIANS KIT 45 TOOLS



WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX2602/S9	Set of 9 coloured hex keys
WX3060	Universal pliers VDE 180 mm
WX3210	Bent nose pliers 1/2t VDE 200 mm
WX3430	Stripping pliers VDE 160 mm
WX3610	Diagonal cutting nippers VDE 125 mm
WX4770	Electricians scissors 155 mm
WX6600	LED torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4030	VDE slotted screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080	VDE screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4130	VDE Screwdrivers for Pozidriv screws PZ0x60 - PZ1x80 - PZ2x100 mm

COMBINATION RATCHET WRENCHES 72T WX1300



STANDARD ISO 691

Combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.

CODE	L23	HT	mm	a mm	L mm	
E019008	42,32	7,00	8	4,7	136	5
E019010	42,64	7,20	10	5,5	160	5
E019011	42,64	7,20	11	6,1	168	5
E019012	42,64	7,20	12	6,4	174	5
E019013	42,64	7,20	13	6,5	180	5
E019014	44,90	8,80	14	7,0	193	5
E019015	45,54	9,10	15	7,5	200	5
E019016	45,69	9,20	16	7,8	216	5
E019017	45,69	9,20	17	8,0	233	5
E019019	20,99	11,90	19	8,8	250	5
E019022	24,38	14,40	22	9,5	285	2
E019024	20,04	17,20	24	9,9	325	2
E019030	46,14	27,50	30	13,8	425	2

REVERSIBLE RATCHET WRENCHES 4 IN 1 WX1460



STANDARD ISO 691

Reversible ratchet wrenches with 4 different sizes in one tool, chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 72T with 5° return angle and high resistance chrome-satin finish. Compliant with RoHS and REACH directives.

CODE	L23	HT	mm	mm	L mm
E021404	27,98	16,60	10 x 13	17 x 19	230

HEXAGONAL L KEYS WX2560/S9



STANDARD DIN 911 - ISO 2936

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.

CODE	L23	HT	Pieces	Composition
E229609	48,97	9,99	9	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

FIXED T-HANDLE HEXAGONAL WRENCHES WX2717



Wrenches **PREMIUM QUALITY** fixed T-handle for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques. Colour coded wrenches for quick size selection.

CODE	L23	HT	mm	a mm	L mm	CODE	L23	HT	mm	a mm	L mm
E264302	44,36	8,80	2	66	130	E264306	48,02	11,00	6	105	210
E264302,5	44,36	8,80	2,5	66	130	E264307	48,76	11,40	7	105	210
E264303	44,36	8,80	3	76	150	E264308	49,82	12,00	8	126	250
E264303,5	44,52	8,90	3,5	76	150	E264309	23,32	14,20	9	140	280
E264304	45,07	9,10	4	91	180	E264310	24,38	14,80	10	150	300
E264304,5	45,40	9,30	4,5	91	180	E264312	30,74	18,80	12	160	330
E264305	45,72	9,50	5	105	210	E264314	38,46	23,20	14	170	340

WODEX

LED TORCHES WX6620



€ 55,00

N708001

**FREE
BATTERY**



Composition:

- Handle with magnet Ø 35x140 mm
- Flexible bulb Ø 20x400 mm LED XPG 180 Lumens with Zoom function WX6620-B
- Fixed bulb Ø 35x50 mm LED XPG 250 Lumens with Zoom function WX6620-A
- Multiled adjustable bulb 20x190 mm COB LED 350 Lumens WX6620-C
- USB battery charger 230V
- USB cable

Charging time 4 hours



WODEX

LED TORCHES WX6630

€ 31,00

N708101



High performance LED torches suitable for lighting workstations and general inspection work. The body is covered with shock-resistant rubber (1.5 metres impact resistant) and is also resistant to splashing water (IPX-4 protection).

Includes a swivel hook, an adjustable magnetic base up to 180°, a 3.7 Volt 2200 mAh Li-ion battery and a battery charger with USB socket.

Charging time 4 hours

CODE	Light output Lm	Beam distance m	Dimensions a x b x L mm	Weight g
N708101	45 - 70 - 240	10 - 20 - 24	52 x 30 x 164	197

WODEX

MULTIFUNCTIONAL CUTTERS WITH TRAPEZOID BLADE WX4720

Multifunctional Safety cutters with **PREMIUM QUALITY** trapezium blades 60x19 mm, robust and resistant. Zinc alloy body, anti-slip ergonomic TPR Soft-Grip handle. Container with 3 replacement blades integrated in the handle.

CODE	L23	HT	Trapezoid blade mm	Weight g
F374560	43,20	7,50	60 x 19 x 0,6	208

WODEX

CUTTERS WITH SNAP-OFF BLADES WX4680

Cutters with **PREMIUM QUALITY** snap-off blades 18 mm, strong and resistant. Metal body and zinc alloy, anti-slip ergonomic TPR Soft-Grip handle.

CODE	L23	HT	Snap-off blades mm	Weight g
F368018	43,00	7,10	100 x 18 x 0,5	237





ADJUSTABLE PLIERS FOR PIPES AND NUTS

Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, handles coated with synthetic resin.



CODE	L23	HT	Length mm	Max opening mm
F05480125	26,95	20,21	125	27
F05480150	27,65	20,74	150	32
F05480180	29,00	21,75	180	42
F05480250	30,80	23,10	250	50
F05480300	42,90	32,18	300	70
F05480400	75,00	56,00	400	90
F05480560	125,45	94,00	560	115



ADJUSTABLE PLIERS FOR PIPES AND NUTS

Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, handles coated with synthetic resin.



CODE	L23	HT	Length mm	Max opening mm
F05475180	22,20	16,65	180	42
F05475250	23,40	17,55	250	50
F05475300	35,10	26,33	300	70
F05475400	68,65	51,00	400	90



ADJUSTABLE PLIERS

Forged and oil-hardened chrome-vanadium steel.

Chrome version with synthetic resin-coated handles.



CODE	L23	HT	Length mm	Max opening mm
F0580125	51,40	39,00	125	23
F0580150	57,40	43,00	150	27
F0580180	57,80	43,00	180	35
F0580250	66,20	50,00	250	46
F0580300	82,30	62,00	300	60
F0580400	145,20	109,00	400	85



DIAGONAL CUTTING NIPPERS FOR PLASTIC MATERIALS

Chrome-vanadium steel, forged, oil-hardened, handles coated with synthetic resin.

Version with 45° inclined cutting edges.



CODE	L23	HT	Length mm
F1760160	44,20	33,15	160

THE RIGHT PLIERS FOR YOUR APPLICATION



CRIMPING PLIERS

Usage

- Male, female terminals and pre-Insulated head connectors



CODE	L23	HT	Section mm ²	AWG	Length mm
F1015220	448,60	89,00	0,5 - 6	20 - 10	220



CRIMPING PLIERS FOR END SLEEVES

Usage

- Insulated and non-Insulated end sleeves (ferrules)



CODE	L23	HT	Section mm ²	AWG	Length mm
F1020220	426,25	95,00	0,25 - 6	23 - 10	220



CRIMPING PLIERS FOR END SLEEVES

Usage

- Square pressing section of the end sleeves up to 16 mm²
- Square section pressing for optimal surfaces regardless of the positioning of the connection
- Pressing of all twin end sleeves up to 2 x 6 mm² or 2 x AWG 8



CODE	L23	HT	Section mm ²	AWG	Length mm
F1035180	489,35	135,00	0,08 - 10 + 16	28 - 5	180



CRIMPING PLIERS FOR END SLEEVES

Usage

- Pressing with hexagonal section of end sleeves up to 10 mm²
- Hexagonal section pressing for difficult to access areas
- Pressing of all twin end sleeves up to 2 x 4 mm² or 2 x AWG 10



CODE	L23	HT	Section mm ²	AWG	Length mm
F1036180	489,60	142,00	0,08 - 10	28 - 7	180

TOOL CABINETS WITH MRO ASSORTMENTS - 69 TOOLS



**GRAND PRIX 5
+ 69 TOOLS**

€ 669 ,00

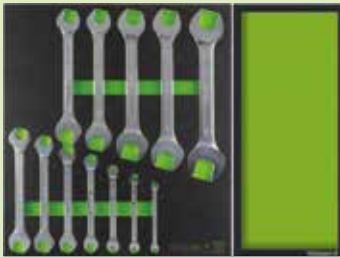
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**GRAND PRIX 7
+ 69 TOOLS**

€ 699 ,00

1336624



WX1010/SE12 Combination wrenches

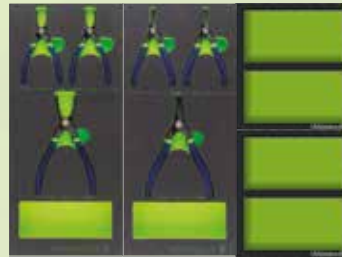
WX9492 Eva tray modules with 1 empty tray



WX2280/SE36 Socket set 1/2"

WX4210/SE6 Slotted and PH-PZ screws

WX9492 Eva tray modules with 1 empty tray



WX3400/SE3 Straight nose pliers
for internal circlips

WX3410/SE3 Straight nose pliers
for external circlips

WX9490 Eva tray modules with 2 empty tray



WX3750/SE4 Set of pliers

WX7620/SE5 Set of files for mechanics

WX9490 Eva tray modules with 2 empty tray



TOOL CABINETS WITH MRO ASSORTMENTS - 233 TOOLS



WX9410/B7-SCS
+ 233 TOOLS

€ 1.599 ,00

1335483

With anti-tip
Safety Control System



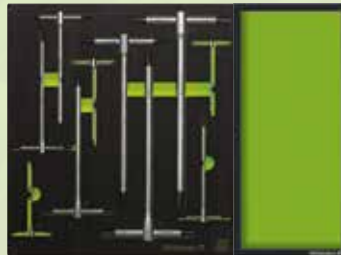
WX9416/B6
+ 233 TOOLS

€ 1.899 ,00

1336912



WX1060/SE16 Set of combination wrenches
WX4230/SE10 Slotted and Phillips screwdrivers



WX2717/SE10 Set of hex. male t-handle
with fixed shaft
WX9492 Eva tray modules with 1 empty tray



WX3750/SE4 Pliers and cutting nippers
WX2095/SE71 Socket wrenches 1/4" and 1/2"
WX9492 Eva tray modules with 1 empty tray



WX9505/SE6 Set of assorted tools
WX9512/SE12 Hacksaw and cutting nippers



WX6620 Led torches
WX9520/SE2 Hex wrenches and stubby bit holder
WX9515/SE12 Set of assorted tools
WX4950/SE6 Set of pin punches



EXTRA
WX4590/31
Set of bits 1/4"



EXTRA
N5225SET3
Set of countersinks and drill bits



EXTRA
E357000
Keys for electrical panels and cabinets

FLAT CUTTING DISCS



MULTICUT

Universal flat cutting discs. Suitable for cutting medium-small sections. To be used on angle grinders.

P	M	K	N	S	H
●	●	○	○	-	-
CODE	HT	Ø mm			
G035011510	0,95	115 x 1,0 x 22,2			25
G035011516	0,95	115 x 1,6 x 22,2			25
G035012510	0,99	125 x 1,0 x 22,2			25
G035012516	0,99	125 x 1,6 x 22,2			25

FLAP DISCS ZIRCONIUM STEARATE



Z+ HUSKY

Flap discs with fibre backing and zirconium stearate cloth. The stearate allows cold working and lower disc clogging. Ideal for low pressure machining of aluminium cast iron, brass, copper and all clogging materials.

P	M	K	N	S	H
○	●	●	●	-	-
CODE	HT	Ø mm	Grain size		
G1255115040	1,60	115	40		20
G1255115060	1,60	115	60		20

FLAP DISCS ZIRCONIUM



Z FALCON FIBRA

Flap grinding discs with fiberglass backing and zirconium oxide cloth. Monolamellar-type execution with conic shaped backing pads. Cost-effective, high-performance product. The fiberglass support allows full consumption of the disc. For general use on steel, cast iron, aluminum and light alloys.

P	M	K	N	S	H
●	●	○	○	-	-
CODE	HT	Ø mm	Grain size		
G1214115040	1,15	115 x 22,2	40		20
G1214115060	1,15	115 x 22,2	60		20
G1214115080	1,15	115 x 22,2	80		20
G1214125040	1,55	125 x 22,2	40		20
G1214125060	1,55	125 x 22,2	60		20
G1214125080	1,55	125 x 22,2	80		20

FLAP DISCS ZIRCONIUM



Z FALCON PLASTICA

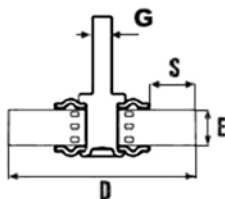
Flap grinding discs with nylon backing and zirconium abrasive cloth. Monolamellar execution with flat shaped backing pads. High performance economical. Suitable for use on all stainless steel materials and also cast iron, aluminum and light alloys.

P	M	K	N	S	H
●	●	○	○	-	-
CODE	HT	Ø mm	Grain size		
G1218115040	1,15	115 x 22,2	40		20
G1218115060	1,15	115 x 22,2	60		20
G1218115080	1,15	115 x 22,2	80		20
G1218125040	1,55	125 x 22,2	40		20
G1218125060	1,55	125 x 22,2	60		20
G1218125080	1,55	125 x 22,2	80		20



WHEEL BRUSHES WITH SHANK

Crimped wire brushes. Universal use in cleaning steps. Ideal for removing rust, polishing, light deburring removing corrosion and varnish.

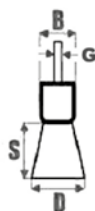


CODE	L23	HT	D mm	E mm	S mm	G mm	Wire	Max speed RPM	
G490202004	7,30	5,10	20	4	3	6 x 30	Steel Ø 0,20	20.000	10
G490203006	5,14	3,60	30	6	7	6 x 30	Steel Ø 0,20	20.000	10
G490204009	4,86	3,40	40	9	9	6 x 30	Steel Ø 0,20	18.000	10
G490205015	7,04	4,90	50	15	13	6 x 30	Steel Ø 0,20	15.000	10
G490206015	7,85	5,50	60	15	15	6 x 30	Steel Ø 0,20	15.000	10
G490207010	5,75	4,00	70	10	19	6 x 30	Steel Ø 0,30	15.000	10
G490207015	7,22	5,10	70	15	19	6 x 30	Steel Ø 0,30	15.000	10
G490208015	8,44	5,90	80	15	19	6 x 30	Steel Ø 0,30	12.000	10
G490210010	9,09	6,40	100	10	20	6 x 30	Steel Ø 0,30	12.000	10
G490202004IN	9,26	6,50	20	4	3	6 x 30	Stainless steel Ø 0,20	20.000	10
G490203006IN	6,34	4,40	30	6	7	6 x 30	Stainless steel Ø 0,20	20.000	10
G490204009IN	7,94	5,60	40	9	9	6 x 30	Stainless steel Ø 0,20	18.000	10
G490205015IN	11,97	8,40	50	15	13	6 x 30	Stainless steel Ø 0,20	15.000	10
G490206015IN	12,75	8,90	60	15	15	6 x 30	Stainless steel Ø 0,20	15.000	10
G490207004IN	16,52	11,60	70	4	9	6 x 30	Stainless steel Ø 0,20	15.000	10
G490207015IN	12,78	9,00	70	15	19	6 x 30	Stainless steel Ø 0,30	15.000	10
G490208015IN	13,73	9,60	80	15	19	6 x 30	Stainless steel Ø 0,30	12.000	10
G490210010IN	14,84	10,40	100	10	20	6 x 30	Stainless steel Ø 0,30	12.000	10



END BRUSHES WITH SHANK

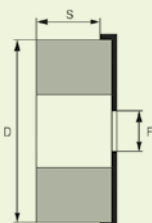
End brushes with crimped wire. Ideal for lightbrushing and deburring or removing rust. During the rotation filament spread out permits to access even hard-to-reach locations into holes and cavities.



CODE	L23	HT	D mm	S mm	B mm	G mm	Wire	Max speed RPM	
G490410	4,24	2,95	10	20	10	6 x 21	Steel Ø 0,20	20.000	10
G490410IN	5,33	3,70	10	20	10	6 x 21	Stainless steel Ø 0,20	20.000	10
G490415	4,19	2,90	15	22	16	6 x 21	Steel Ø 0,20	18.000	10
G490415IN	5,92	4,10	15	22	16	6 x 21	Stainless steel Ø 0,20	18.000	10
G490420	5,12	3,60	20	25	22	6 x 21	Steel Ø 0,20	18.000	10
G490420IN	8,28	5,80	20	25	22	6 x 21	Stainless steel Ø 0,20	18.000	10
G490430	7,30	5,10	30	25	29	6 x 21	Steel Ø 0,20	15.000	10
G490430IN	12,24	8,60	30	25	29	6 x 21	Stainless steel Ø 0,20	15.000	10

**NEW****FLAT BRUSHES
FOR USE ON STATIONARY MACHINES**

Ideal for deburring on machining centres. They have a resin body with drive holes. Nylon thread coated with Silicon Carbide. To be used with the specific support shaft. Particularly suitable for removing burrs after milling operations with interrupted cuts.



CODE	L23	HT	D mm	S mm	F mm	Grain	Ø Wire mm	Max speed RPM
G4918075080	103,07	72,00	75	38	22,2	SIC 80	1,1	4.500
G4918075120	103,07	72,00	75	38	22,2	SIC 120	1,1	4.500
G4918100080	105,08	74,00	100	38	22,2	SIC 80	1,1	3.500
G4918100120	105,08	74,00	100	38	22,2	SIC 120	1,1	3.500
G4918150080	170,79	120,00	150	38	22,2	SIC 80	1,1	2.500
G4918150120	170,79	120,00	150	38	22,2	SIC 120	1,1	2.500

**NEW****ARBORS FOR FLAT BRUSHES**

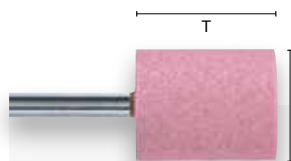
For use with brushes for stationary G4918 range.



CODE	L23	HT	For brushes Ø mm	Shank Ø mm
G4919100	204,20	143,00	75 - 100	12
G4919150	247,00	152,00	125 - 150	12

**MOUNTED POINTS WITH PINK ALUMINUM OXIDE**

Made with pink aluminum oxide and vitrified bond. For universal use on all kind of steel and cast iron. They guarantee constant cutting speed and a good surface finish.

**ZY**

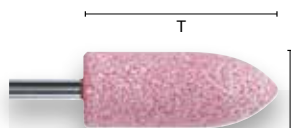
Cylindrical shape

CODE	L23	HT	D x T mm	Shank mm	Specification	
G540630206100	1,82	1,10	2 x 6	3 x 38	AR 100 P5V	10
G540630306080	1,67	1,00	3 x 6	3 x 38	AR 80 P5V	10
G540630408080	1,67	1,00	4 x 8	3 x 38	AR 80 P5V	10
G540630510080	1,67	1,00	5 x 10	3 x 38	AR 80 P5V	10
G540630612080	1,67	1,00	6 x 12	3 x 38	AR 80 P5V	10
G540630812080	1,82	1,10	8 x 12	3 x 38	AR 80 P5V	10
G540631012060	2,17	1,30	10 x 12	3 x 38	AR 80 P5V	10
G540660610060	2,06	1,24	6 x 10	6 x 40	AR 60 P5V	10
G540660612100	2,06	1,24	6 x 12	6 x 40	AR 100 P5V	10
G540660810080	2,34	1,40	8 x 10	6 x 40	AR 80 P5V	10
G540661015060	2,49	1,49	10 x 15	6 x 40	AR 60 P5V	10
G540661215060	2,53	1,52	12 x 15	6 x 40	AR 60 P5V	10
G540661520046	2,82	1,69	15 x 20	6 x 40	AR 46 P5V	10
G540662020046	2,92	1,75	20 x 20	6 x 40	AR 46 P5V	10
G540662525046	3,27	1,96	25 x 25	6 x 40	AR 46 P5V	10
G540663232036	4,53	2,72	32 x 32	6 x 40	AR 36 P5V	10

**KU**

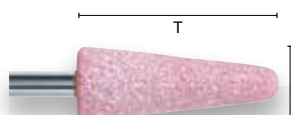
Spherical shape

CODE	L23	HT	D mm	Shank mm	Specification	
G5411306080	2,49	1,49	6	3 x 38	AR 80 P5V	10
G5411308080	2,49	1,49	8	3 x 38	AR 80 P5V	10
G5411310060	2,53	1,52	10	3 x 38	AR 60 P5V	10
G5411610060	3,34	1,99	10	6 x 40	AR 60 P5V	10
G5411612060	3,34	1,99	12	6 x 40	AR 60 P5V	10
G5411615046	2,88	1,73	15	6 x 40	AR 46 P5V	10
G5411620046	3,56	2,14	20	6 x 40	AR 46 P5V	10

**SP**

Ogival shape

CODE	L23	HT	D x T mm	Shank mm	Specification	
G541661220060	3,69	2,21	12 x 20	6 x 40	AR 60 P5V	10
G541662032046	5,83	3,50	20 x 32	6 x 40	AR 46 P5V	10

**KE**

Conical shape

CODE	L23	HT	D x T mm	Shank mm	Specification	
G542161025060	3,42	1,87	10 x 25	6 x 40	AR 60 P5V	10
G542162032046	3,95	2,37	20 x 32	6 x 40	AR 46 P5V	10

Mini Storm

Extra compact
Practical and reliable



€ 1.500,00

N601035

Features

- 2 Independent motor By-passes
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Suction Inlet 70 mm ø with reduction terminal quick release hose 50 mm ø
- Accessories port
- Wheeled container for the aspirated material quick release hook

Storm

Reliable and maximum
power of category



€ 1.870,00

N6015100

Features

- 3 By-pass independent motors
- Cyclone and tangential inlet of the material
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Vacuum gauge
- Compensation valve
- Magnetothermic switch
- Suction mouth ø 80 mm with reduction terminals for ø 50 mm hose
- Accessory compartment
- Container for quick-dislodged aspirated material

TwistOil

Separating liquids and
mixed solids without blocks



€ 3.074,00

N6005131

Features

- Turbine with single-phase motor
- Liquid suction time L/sec 130/30
- Liquid dis-charge L/130/50
- Container made of galvanized steel
- Level probe with automatic locking system
- Suction mouth 50 mm ø
- Immediate recovery of lubricated fluids with re-immersion directly into the tank through the drainage hose with a sphere valve
- Accessories port

INDUSTRIAL ASPIRATORS/SEPARATORS TWISTOIL

CODE	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity L/min	Solids container L	Sound level dB(A)	Dimension mm	Weight kg
N6005131	130	230 - 50/60	2,4 - 3	230	5500	40	70	700 x 1180 x 1320 h	95

INDUSTRIAL ASPIRATORS STORM 3600

CODE	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N6015100	100	230 - 50/60	3,6 - 4,5	250	9000	M	72	820 x 650 x 1640h	71

UNIVERSAL ASPIRATORS MINI STORM

CODE	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N601035	45	230 - 50/60	2,4 - 3	250	6330	M - CLASS	72	510 x 640 x 1240h	45



VASELINE OIL SPRAY

Odourless and colourless lubricant based on pharmaceutical grade Vaseline oil.

Does not stain.

Ideal for lubricating precision instruments, textile and food industry machinery, hinges and locks.

€ 13,50

J2310400



HELP - LABEL REMOVER

Facilitates the quick detachment of paper labels and glue residues of labels of different material (plastic, aluminium, etc.).

It does not run even if sprayed on upright surfaces. Also eliminates traces of ink and paint.

€ 4,50

J3675400



LOCTITE

DISINFECTANT DEODORANT SPRAY

Non-toxic multi-purpose disinfectant. Eliminates bacterial, molds and fungi from surfaces, contaminated objects and air conditioning systems.

Medical Surgery Presidium.

CODE	J5110150
L23	42,90
HT	9,60
Package	Spray can
Quantity	ml 150
	4



RELEASE OILS - LUBRICANTS

Multi-purpose synthetic oil-based lubricant.

- Release lubricant
- Penetrating
- Reduces friction
- Prevents rust

€ 38,00

J21406X500



5+1 FREE

+100ml OF PRODUCT PER CAN



LOCTITE

HAND-WASHING CREAM

Natural citrus fruit extracts, suitable for removing deep-seated dirt while protecting the skin. Biodegradable.

CODE	J52103
L23	40,50
HT	27,00
Package	Can with dispenser
Quantity	L 3
	4





GREASE AIR PULSOMETERS FOR 20-30 KG DRUMS

Grease distribution kit.
Disponibili con o senza carrello.
Complete with drum cover and follower membrane.
Compression ratio 50:1
Flow rate 1500 rpm



CODE	J4165030CR
L23	579,00
HT	410,00
Description	Pump and trolley
For drums	12 - 30 kg
Tube	M/F 1/4" - 4 m - 400 bar

PROFESSIONAL HAND OPERATED GREASE PUMPS

Professional greasing kit in box including a professional hand operated grease pump, complete with 300 mm rubber hose and 4-chuck jaw grease coupler Suitable for general-purpose standard cartridges or bulk grease.

€ 34,00

J41220500



PROFESSIONAL LEVER AND GUN COMPRESSORS

Professional manual compressor that can be lever operated or even pistol operated with one hand. Aluminum head and black anti-slip knob, with vent valve for air bubbles. It can also be used with bulk grease. The kit includes a 400mm flexible hose, a rigid pipe straw and a 4-jaw head.

€ 59,00

J4124500



For cartridges	g	400
For cartridges Ø	mm	52
Capacity	g	500

LINCOLN
ELECTRIC

ELECTRONIC WELDING MASKS

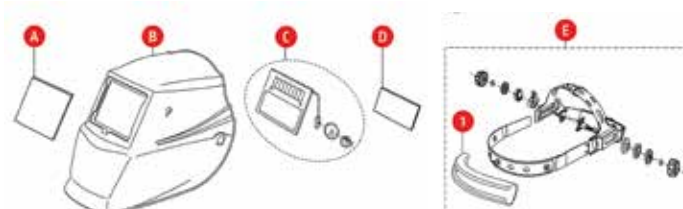
Variable shade: DIN 3.5/9-13
Light to dark switching time: 0.06 ms
Arc sensors: 2
Cartridge size: 110 x 90 mm
Viewing area: 4,312 mm²
Power supply: Solar powered
Weight: 490g

€ 103,00

J864010



SPARE PARTS FOR EUROONE MASKS



CODE	L23	HT	Description
J8641A	2,44	1,58	Front lenses
J8641B	64,30	48,00	Helmet
J8641C	109,30	82,00	Auto darkening filter
J8641D	4,96	1,47	Internal lenses
J8641E	30,45	22,84	Headgear
J8641I	14,10	10,58	Sweet band



IMPACT DRILL and GRINDER KIT



M18 BLPD2-502X



AG 800-125 E

KIT PRICE

€ 460,00

N403418V

BRUSHLESS DRILL DRIVER WITH IMPACT FUNCTION M18™

- The new brushless motor delivers 40% more torque than previous model - up to 82 Nm
- REDLINK™ electronics for enhanced overload protection and longer battery life
- The REDLITHIUM™ battery guarantees consistent performance to deliver more run time and longer battery pack life
- Compact design, only 180 mm long

No-load speed rpm	0-550 / 0-1800
Keyless chuck mm	13
Max. drilling capacity wood/metal/masonry mm	76/13/16
Impact rate (ipm)	0 - 28,800
Torque max. Nm	82

GRINDER 800W

- Powerful but extremely light 800W motor
- Accidental restart protection (LLO)
- Soft start
- Steel gears for maximum durability
- Protected air intakes for improved cooling
- Compact head, ideal for working in confined spaces (only 194mm long)

No-load speed rpm	11,500
Disc diameter mm	125
Weight Kg	2.0
Brake	NO
Switch type	Slide lock-on switch



ANGLE GRINDERS

Compact high-performance grinder, which thanks to the innovative brushless technology increases the life of the tool by 60%, almost eliminating all maintenance costs. The best power-to-weight ratio in its category. Anti-kickback and restart protection systems. Electronic overload protection. Infinitely variable electronic speed control for wide range of applications.

Voltage	V	230
Rated power	W	1500
Power output	W	1050
disc Ø	mm	125
No-load speed	Rpm	3800-9000
Mounting threaded spindle		M14
Weight	Kg	2.2

NEW



€ 299,00

N4204125

Included:

Protective headset
Pair of flanges
Wrench

WODEX 3-SHELF TROLLEY

WX9400



RIBBED MAT

Multi-purpose trolley with 3 shelves with heavy duty ribbed mat. Edges on all shelves to prevent items from falling off during transport. Capacity of each shelf approx. 100 kg. Handle with black glass fibre reinforced technopolymer end piece. Metallic grey aluminium tube, 2 mm thick. Two castor wheels (Ø 100 mm) and two fixed wheels (Ø 100 mm), one of which fitted with a brake.

Supplied unassembled.
Blue RAL 5004 epoxy painted.

CODE		P543301
HT		144,00
AxBxC	mm	750 x 450 x 950
Load capacity	kg	200
Weight	kg	22,5



SHELF CAPACITY
100 KG EA.

WODEX

WORK TROUSERS
WX8080



T-SHIRT
FREE

various sizes available

CODE	L23	HT	EU
K0674M	35,40	26,00	M 48/50
K0674L	35,40	26,00	L 52
K0674XL	35,40	26,00	XL 54/56
K0674XXL	35,40	26,00	XXL 58/60

3M

EARMUFFS
PELTOR™ OPTIME™ I



EN 352-1

€ 19,00

K4300100

Frequency Hz:
H - M - L - SNR

Attenuation db:
30 - 24 - 15 - 27

Suitable for moderate noise environments.
Reduce noise levels by up to 28 dB.



DISPOSABLE EARPLUGS
1100



EN 352-2



€ 0,18

K4320200

Frequency Hz:
H - M - L - SNR

Attenuation db:
37 - 34 - 31 - 37

Made of soft, hypoallergenic polyurethane foam. Designed to be inserted into the ear canal, reducing exposure to hazardous noise levels by up to 37 dB.

DIKE

SAFETY SHOES

NEW
**RANKING
RELOAD**
€ 70,00

K1716


WORKS

SAFETY SHOES

NEW
**JUMP 550
II SIPL**
€ 75,00

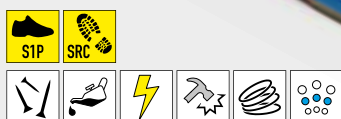
K1621


DIKE

SAFETY SHOES

**CYCLON
CROSS**
€ 65,00

K1702


WORKS

SAFETY SHOES

**HIT 425 SIP
215058 7BV**
€ 60,00

K1642


FOOTWEAR ICONS LEGEND

 Safety requirements
SIP

 Safety requirements
S3

 Non-slip
tread


Electrostatic discharge


 Steel
midsole

 Dynamic impermeability
of the uppers

 Antistatic
sole

 Oil resistant
sole

 200 joule
toe cap

 Energy
absorbing heel

 Breathable
leather upper

K1716	K1621	K1702	K1642	EU	US
-	-	-	-	36	4,5
-	-	-	-	37	5
K171638	K162138	K170238	K164238	38	5,5
K171639	K162139	K170239	K164239	39	6
K171640	K162140	K170240	K164240	40	7
K171641	K162141	K170241	K164241	41	8
K171642	K162142	K170242	K164242	42	8,5
K171643	K162143	K170243	K164243	43	9
K171644	K162144	K170244	K164244	44	10
K171645	K162145	K170245	K164245	45	11
K171646	K162146	K170246	K164246	46	11,5
K171647	K162147	K170247	K164247	47	12

NEW

DISPOSABLE GLOVES EMBOSSED IN NITRILE - 50 PIECES



Thickness 0,15mm
Fish scale finish



JKPT VIRUS

CODE	L23	HT	EU	
K251708	18,90	10,50	M	8
K251709	18,90	10,50	L	9
K251710	18,90	10,50	XL	10

WRK

GLOVES IN POLYESTER COATED IN POLYURETHANE



2121X

CODE	L23	HT	EU	
K23106	4,65	0,60	S	6
K23107	4,65	0,60	M	7
K23108	4,65	0,60	L	8
K23109	4,65	0,60	XL	9
K231010	4,65	0,60	XXL	10

WRK

DISPOSABLE NITRILE GLOVES 100 PIECES



EN 374-1



CODE	L23	HT	EU	
K251607	9,50	6,00	S	7
K251608	9,50	6,00	M	8
K251609	9,50	6,00	L	9
K251610	9,50	6,00	XL	10

WRK

CUT RESISTANCE GLOVES COATED IN POLYURETHANE



4442C

CODE	L23	HT	EU	
K234607	6,20	3,70	S	7
K234608	6,20	3,70	M	8
K234609	6,20	3,70	L	9
K234610	6,20	3,70	XL	10

WRK

COWHIDE GRAIN LEATHER GLOVES



2143X



CODE	L23	HT	EU	
K21007	4,80	2,00	M	7
K21008	4,80	2,00	L	8
K21009	4,80	2,00	XL	9
K210010	4,80	2,00	XXL	10
K210011	4,80	2,00	XXXL	11

3M

FILTERING RESPIRATORS FFP2 9320+



EN 149

FFP2 NR D

€ 2,22

K522020



Application:

- Sanding, paint stripping, grinding, cutting, drilling, metalworking
- Cleaning / waste management
- Exhaust fumes
- Fungi, bacteria, viruses
- Inks, Dyes, Solvents, Chemicals
- Rubber / plastic processing
- Additives / chemicals in powder form

PANEL AND SHELF CONFIGURATIONS

+



+



+



+



+



Fami
Storage Systems

NEW

WORK BENCH

Height-adjustable workbench, unassembled, with 30 mm multiplex top and cabinet L=500 with drawer H=150mm. Tools not included.



AN ADDITIONAL
SUPPORT

+

HEIGHT
ADJUSTABLE

+



Included:

- N. 1 kit containing 3 uprights
- N. 2 kits containing 3 perforated panels/shelves with two box-stop edges
- 6 packs of UNIPOK hooks (30pcs pack)
- Bar with 8 plastic containers size 1



+

8 PLASTIC
CONTAINERS SIZE 1

CODE	L23	HT	Dimensions mm	Colour
P00091500	4.175,00	705,00	1500 x 750 x 1675/2050	Ral 5012
P00092000	4.454,00	880,00	2000 x 750 x 1675/2050	Ral 5012

BINCART TROLLEY

Trolley with 125mm diameter non-marking rubber wheels, includes 6 perforated panels that can also be positioned as shelves. Supplied unassembled.

CODE	HT	Dimensions mm	Colour	Capacity kg
P424309	585,00	1067 x 668 x 1965	Grey ral 7016	300
P424315	720,00	1552 x 668 x 1965	Grey ral 7016	300



BINCART TROLLEY

Trolley with 125 mm diameter non-marking rubber wheels, includes aluminium profile with hooks D = 171. Supplied unassembled.

CODE	HT	Dimensions mm	Colour	Capacity kg
P424410	295,00	1067 x 668 x 1965	Grey ral 7016	300
P424415	325,00	1552 x 668 x 1965	Grey ral 7016	300

CABLE MANAGEMENT HOOKS

CODE	HT	Dimensions mm	Colour	Depth mm
P112435	10,00	28 x 171 x 84	Zinc	100
P112415	9,00	28 x 221 x 84	Zinc	150
P1124352	10,00	28 x 271 x 84	Zinc	200



iMilani

PLASTIC BOXES - NEXIT

Extremely robust stackable plastic boxes with smooth bottom. The smooth bottom makes them light and easy to handle. Size suitable for euro standard, ideal for logistics. The internal radius of curvature of the handles provides a high level of comfort and a safe grip during manual handling.



CODE	P4314120	P4314170	P4314220
L23	8,89	10,23	15,75
HT	8,89	10,23	15,75
Dimensions mm	600 x 400 x 120	600 x 400 x 170	600 x 400 x 220
Weight kg	1,44	1,67	1,9
Volume lt	23,9	34,2	44,5
Colour	Grey	Grey	Grigio



CODE	P4315120	P4315170	P4315220
L23	6,33	7,47	7,65
HT	6,33	7,47	7,65
Dimensions mm	400 x 300 x 120 h	400 x 300 x 170 h	400 x 300 x 220 h
Weight kg	0,76	0,89	1,14
Volume lt	11,3	16,1	20,9
Colour	Grey	Grey	Grey

NC TABLE SUPPORT NC 36 X 27 E

NC table support with frame for housing in drawers for 3 tracks.
Made of sheet steel.



CODE	P1049A01	P1049B01
L23	327,50	282,50
HT	185,00	185,00
Dimension	mm 588 x 413 x 345	588 x 413 x 345
Supports	24 ISO-SK 40	15 ISO-SK 50
Colour	RAL 5012	RAL 5012

DRAWERS 36 X 27 E

Drawers with body that resists up to 4 t, full use of the drawers. Unique in the world of Lista thanks to the total extraction of the drawers, limit stop to prevent the drawers from falling, excellent protection characteristics against dirt, liquids and mechanical stress. Corrosion protection, thanks to electrophoresis painting. Including List Script labeling. Drawer internal dimension 612 x 459mm.



7 drawer

CODE	P2124A05
HT	800,00
Dimension	mm 717 x 572 x 850
Drawer dimension	mm 2 x 75 / 2 x 100 / 2 x 125 / 1 x 150
Colour	RAL 5019
Drawer capacity	kg 75

UNIVERSAL SHELVING L1006



CODE	P630800	P6308A00
L23	276,46	490,79
HT	240,00	165,00
Dimension	mm 1000 x 400 x 2000	1000 x 400 x 2000
Shelves	n° 5 x 160 Kg	5 x 160 Kg
Description	Universal shelving	Additional bay
Capacity	kg 2800	2800

CABINETS WITH SHEET METAL DOORS



Cabinets with two doors in sheet metal. The doors close flush with the structure of the cabinet with an opening of about 115 degrees. Maximum stability and high capacity of shelves. Extraordinary characteristics of protection against dirt, liquids and mechanical stress, thanks to the closed cabinet structure, with impact-resistant and wear-resistant surfaces. Equipped with key lock.

4 Shelves 60kg

CODE	P3053B01	P3053B02
L23	698,49	760,50
HT	485,00	485,00
Dimension	mm 1000 x 500 x 1950h	1000 x 500 x 1950h
Shelves	n° 4 x 60kg	4 x 60kg
Colour	RAL 5012	RAL 7035
Capacity	kg 500	500

BENCHES WITH WOODEN TOP

Benches with plywood top. Beech top thickness of 40mm very resistant to water, rounded corners, surface smoothed and treated with oil and wax thus giving resistance to any spray of water and completely unaffected by oils and fats. Including fastening material and pre-assembly.



CODE		P0126A01	P0126A02	P0126B01	P0126B02
HT		310,00	310,00	350,00	350,00
Dimension	mm	1500 x 700 x 840	1500 x 700 x 840	2000 x 700 x 840	2000 x 700 x 840
Colour		RAL 5012	RAL 7035	RAL 5012	RAL 7035
Capacity	kg	600	600	360	360

CABINETS WITH DRAWERS FOR WORK BENCHES

Drawers with limit stop, single ratchet and flush drawer front. 27x27E version.

Compatible with Lista workbenches.

3 Drawers


Features:

- Centralized key locking
- Drawer internal dimension 459x459 mm

CODE		P0226A01	P0226A02
HT		440,00	440,00
Dimension	mm	564 x 572 x 383	564 x 572 x 383
Drawer dimension	mm	1 x 50 / 1 x 100 / 1 x 150	1 x 50 / 1 x 100 / 1 x 150
Colour		RAL 5012	RAL 7035
Drawer capacity	kg	75	75



SELF-TILTING SCRAP HOLDERS WX9900

Fork mounted structure with fork lift; simple and safe automatic emptying of the container through the tilting lever without getting off the forklift truck.

Compliant with European standards, blue RAL 5004.



Watertight collection tank with sheet metal filter for the separation of liquids and solids and ball drain cock.



CODE	L23	HT	Model	Capacity kg	Weight Kg	A x B x C mm	D mm	E mm	Inclination °
P4511280	4.300,00	730,00	It - 280	600	80	970 x 750 x 890	700	790	25,1
P4511300	4.450,00	780,00	It - 300	600	102	1350 x 820 x 650	490	520	63,5
P4511500	4.600,00	850,00	It - 500	1000	130	1350 x 920 x 910	700	740	57,6
P4511750	4.700,00	900,00	It - 750	1350	152	1350 x 1070 x 1040	825	800	49,6
P45111000	4.900,00	1.000,00	It - 1000	1700	181	1550 x 1070 x 1210	970	920	54

DRUM HOLDER TROLLEYS WX9903

Conceived specifically for handling within the company, the drum holder trolley allows the vertical and horizontal storage, with the use of special options, of 1 or 2 drums. Grey colour RAL 7001.

It is equipped with a push handle, two fixed wheels and two pivoting wheels with brakes.

Compliant with the International Standard UNI EN ISO3834-2:2021

A	mm	860
B	mm	860
C	mm	1170
D	mm	220
E	mm	190
Storage capacity		1 Vertical drum



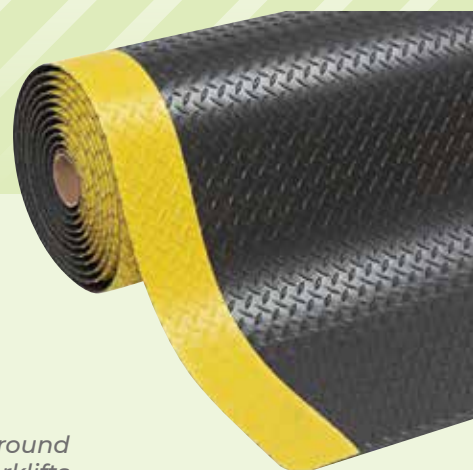
€ 430,00
P6802F1

NEW



ANTI-FATIGUE
MATS THICKENED

NEW



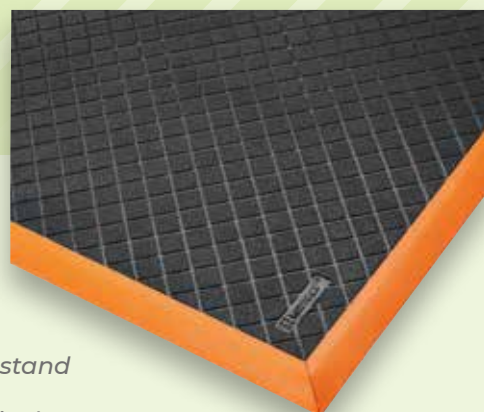
*absorbs whole
body vibrations around
machinery and forklifts*

CODE		P7631NG20	P7631NG30
L23		250,00	550,00
HT		170,00	390,00
Width	cm	60 x 150	91 x 300
Thickness	mm	25,4	25,4
Weight	kg/m ²	6,4	6,4
Classification		Bfl-S1	Bfl-S1
Material		PVC on microcellular vinyl	PVC on microcellular vinyl
Colour		Black-Yellow	Black-Yellow



ANTI-FATIGUE MATS ORANGE
NITRILE RUBBER

NEW



*designed to withstand
industrial oils
and harsh chemicals*

CODE		P7731NA10	P7731NA20
L23		250,00	440,00
HT		150,00	300,00
Dimension	cm	66 x 102 x 2	97 x 163 x 2
Thickness	mm	20	20
Weight	kg/m ²	15	15
Material		Nitrile rubber	Nitrile rubber
Colour		Black - Orange	Black - Orange

MODULAR PADS
WITH RICE GRAIN FINISH



*guarantees excellent
resistance and durability,
with a high anti-slip factor (R12)*

CODE		P7421ULT
L23		46,55
HT		13,00
Dimension	cm	520 x 520
Thickness	mm	14
Weight	kg/m ²	2,38
Colour		Black

HANDLING





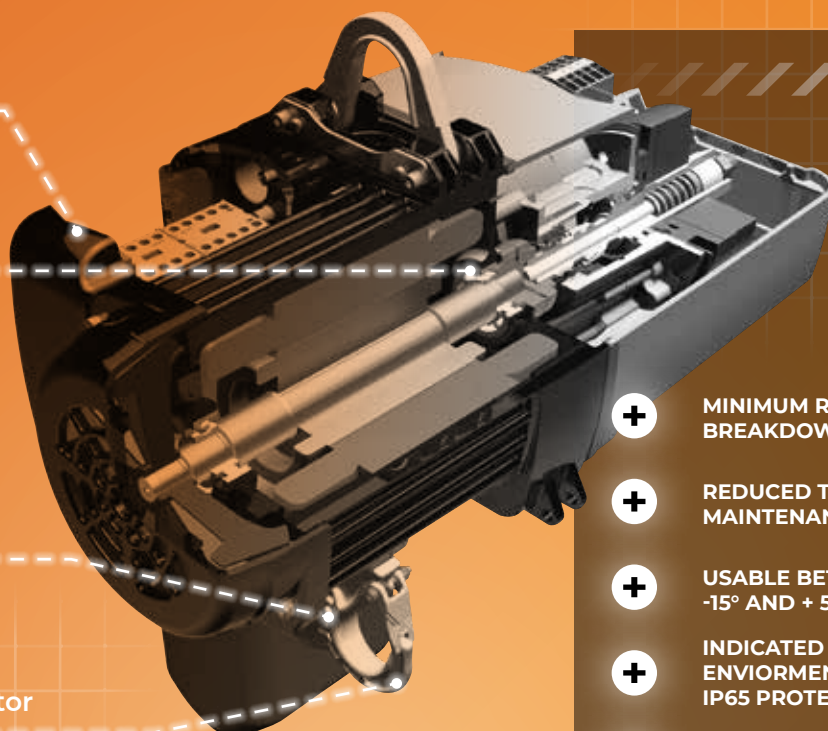
ELECTRIC CHAIN HOISTS

No sensitive electronics

Polygonal shaft-hub couplings

Wear-resistant DC spring brake

Chain with excellent safety factor



- + MINIMUM RISK OF BREAKDOWNS
- + REDUCED TIME AND MAINTENANCE COSTS
- + USABLE BETWEEN -15° AND + 50°
- + INDICATED FOR EXTERNAL ENVIRONMENTS IP65 PROTECTION
- + HIGH OPERATIONAL SAFETY



ELECTRIC CHAIN HOISTS GP

CODE	L23	HT	Load capacity kg	Model	Class FEM (ISO)	Speed m/min	Nr chain falls	Excursion m	Power kW	Intensity A	Weight kg
M00051251NF2	-2.525,00-	1.650,00	125	GP250/1NF	4m (M7)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	-2.150,00-	1.650,00	200	GP250/1NF	3m (M6)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052002NF	-3.600,00-	1.750,00	200	GP250/2NF	4m (M7)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	25
M00052001NF3	-2.150,00-	1.850,00	200	GP500/1NF	4m (M7)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	26
M00052501NF2	-2.400,00-	1.650,00	250	GP250/1NF	2m (M5)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00055002NF	-2.250,00-	1.750,00	500	GP250/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	25
M00055001NF2	-2.150,00-	2.550,00	500	GP1000/1NF	4m (M7)	8/2	1	3	2,3 / 0,68	5,7 / 4,1	62
M000510002NF	-3.330,00-	1.900,00	1000	GP500/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	28
M000516002NF	-2.250,00-	2.600,00	1600	GP1000/2NF	3m (M6)	4/1	2	3	2,3 / 0,68	5,7 / 4,1	66



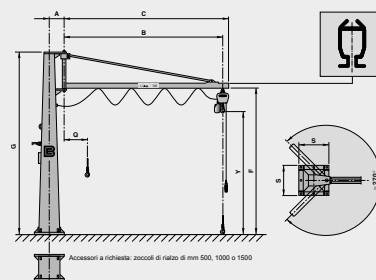
FREE

M0990DT
CYCLE COUNTERS FOR HOISTS



B·HANDLING

COLUMN-MOUNTED JIB CRANES
WITH GIS SYSTEM KB PROFILE ARM



CODE	L23	HT	LOAD CAPACITY kg	MODEL	ARM LENGTH C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M10102004000	2-245,00-	1.700,00	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
M10102005000	2-458,00-	1.850,00	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
M10102006000	2-828,00-	2.000,00	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330
M10105004000	3-716,00-	3.350,00	500	SC 500/4000	4035	3855	320	3495	4320	600	620	2910	12	2	10	1550	380
M10105005000	4-499,00-	3.950,00	500	SC 500/5000	5045	4840	320	3445	4320	730	620	2845	13	2	12	1910	530
M10105006000	4-689,00-	4.150,00	500	SC 500/6000	6045	5840	320	3445	4320	730	620	2845	14	2	14	2290	550
M101010004000	5-249,00-	4.900,00	1000	SC 1000/4000	4045	3720	320	3445	4320	765	620	2845	17	2	19	3100	500
M101010005000	6-442,00-	5.000,00	1000	SC 1000/5000	5045	4720	320	3445	4320	850	620	2845	18	2	24	3850	630
M101010006000	6-864,00-	5.200,00	1000	SC 1000/6000	6045	5720	320	3445	4320	950	620	2845	19	2	28	4600	680

ROUND LIFTING SLINGS

CODE	L23	HT	Colour	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	DOUBLE fl ≤ 45°	DOUBLE fl ≤ 60°	SINGLE fl ≤ 45°	SINGLE fl ≤ 60°
M73101000X1	-9,00-	5,00	VIOLET	1,0	1000	800	2000	1400	1000	700	500
M73102000X2	-26,00-	15,00	GREEN	2,0	2000	1600	4000	2800	2000	1400	1000
M73103000X3	-65,00-	35,00	YELLOW	3,0	3000	2400	6000	4200	3000	2100	1500



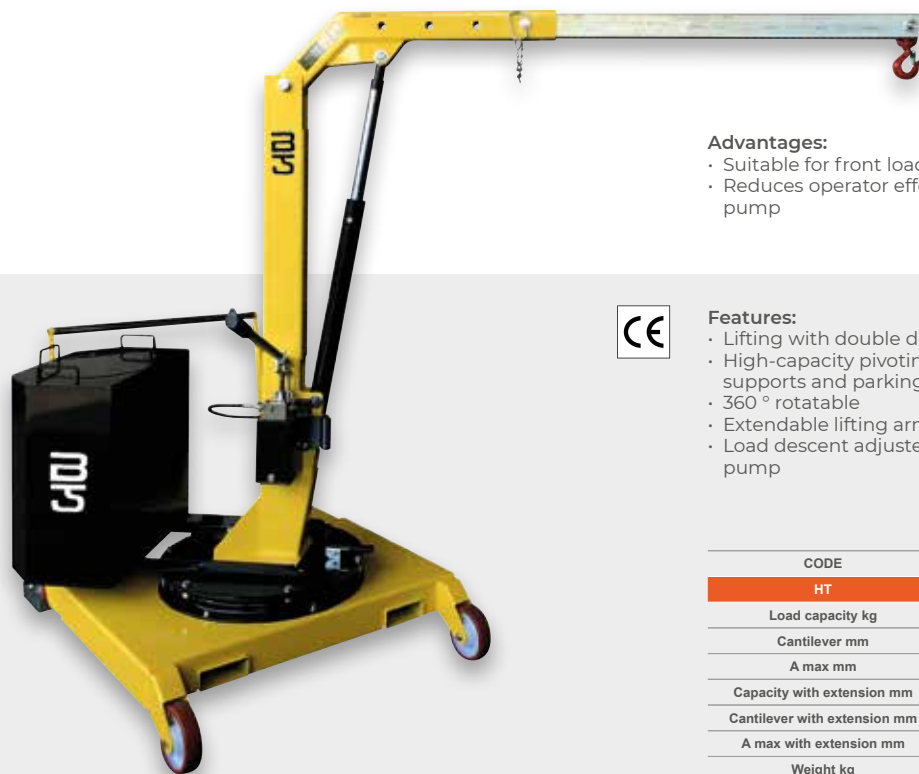
WEB LIFTING SLINGS

CODE	L23	HT	Colour	S mm	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	BASKET fl ≤ 45°	BASKET fl ≤ 45°
M73201000X1	-9,00-	5,00	VIOLET	50	1,0	1000	800	2000	1400	1000
M73202000X2	-21,00-	12,00	GREEN	60	2,0	2000	1600	4000	2800	2000
M73203000X3	-42,00-	25,00	YELLOW	90	3,0	3000	2400	6000	4200	3000



B·HANDLING

BALLASTED REVOLVING CRANES 360 ° WITH MANUAL EXTENSION



Advantages:

- Suitable for front loading directly into the mouth of work center load
- Reduces operator effort thanks to the hydraulic cylinder of the larger pump



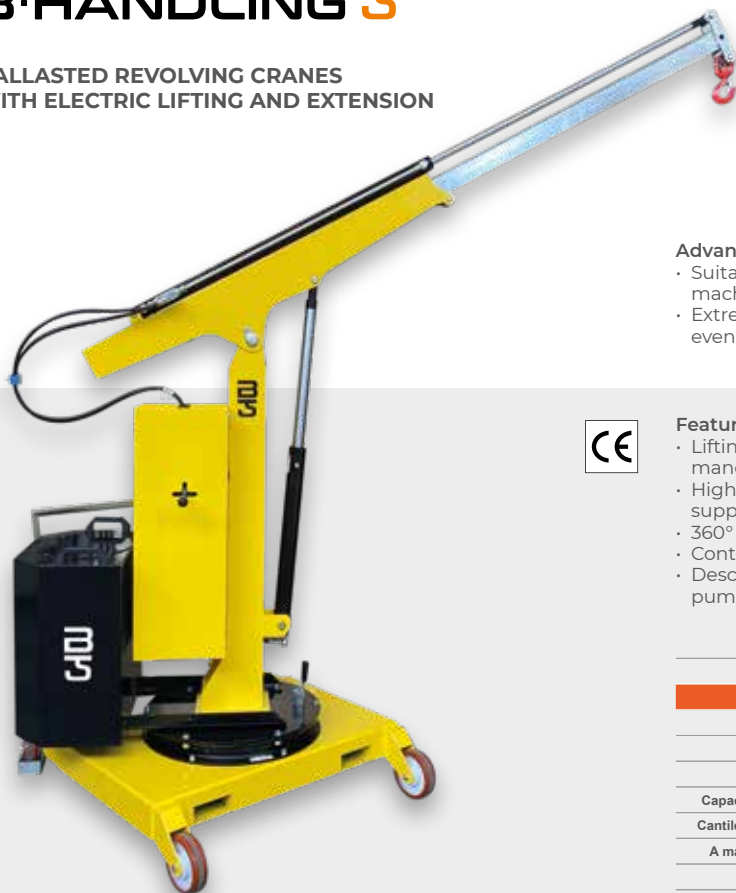
Features:

- Lifting with double delivery manual pump that allows fast lifting
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

CODE	M9410200	M9410500
HT	3.300,00	3.450,00
Load capacity kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320
Cantilever mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770
A max mm	2500	2500
Capacity with extension mm	92 - 85 - 78 - 71	220 - 200 - 180 - 160
Cantilever with extension mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270
A max with extension mm	2850	2850
Weight kg	400	600

B·HANDLING

BALLASTED REVOLVING CRANES WITH ELECTRIC LIFTING AND EXTENSION



Advantages:

- Suitable for frontal loading directly into the loading mouth of the machining centre
- Extremely versatile thanks to its small size which allows it to reach even narrow spaces



Features:

- Lifting and electric extension through a comfortable joystick that maneuvers the ascent, the descent and extension of the boom
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360° rotatable
- Continuously extendable lifting arm over the entire length
- Descent of the load regulated by handwheel incorporated in the pump

CODE	M9425200	M9425500
HT	6.800,00	6.949,00
Load capacity kg	200 - 80	500 - 200
Cantilever mm	410 - 1410	410 - 1410
A max mm	2258	2258
Capacity with extension mm	40	100
Cantilever with extension mm	1930	1930
A max with extension mm	2600	2600
Weight kg	480	680

MOBILE ELEVATING PLATFORMS

- Features:
- Solid steel painted structure
 - Foot pump with pump cylinder and piston rod of hard chrome
 - 2 fixed wheels - 2 swivel wheels with brake
 - Manual lowering lever control

- Supplied with:
- Instruction manual of use and maintenance



CODE		M9210500	M9210500L	M92101000	M92101000L
L23		-824,00	-1.298,00	-1.284,00	-2.625,00
HT		618,00	970,00	960,00	1.970,00
Load capacity	kg	500	500	1000	1000
Platform	mm	815 x 500	1600 x 810	1016 x 510	2035 x 750
Min- Max height	mm	290 - 870	286 - 915	380 - 990	350 - 1360
Weight	kg	84	154	122	198



MOBILE ELEVATING PLATFORMS

- Features:
- Solid steel painted structure
 - Foot pump with pump and cylinder and piston rod of hard chrome
 - 2 fixed wheels - 2 swivel wheels with brake
 - Manual lowering lever control

- Supplied with:
- Instruction manual of use and maintenance



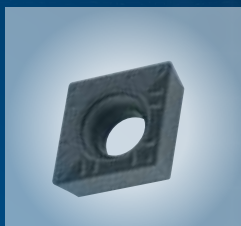
CODE		M9220350	M9225700
L23		-944,00	-1.774,00
HT		685,00	1.328,00
Load capacity	kg	350	700
Platform	mm	905 x 512	1220 x 610
Min- Max height	mm	370 - 1300	445 - 1500
Weight	kg	113	195



TOP *TIPS*



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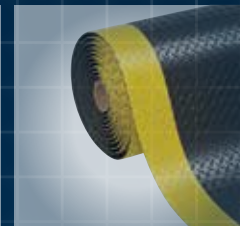
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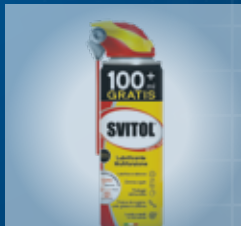
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N7080
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