



HIGHLIGHT TECHNOLOGY

EN

NET PRICES VALID UNTIL 30.04.23 (VAT EXCLUDED)





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,...).

26

LUBRICANTS



04

PRECISION
TOOLING



30

MRO

*in 3 m
everything*



60
HANDLING



20
METROLOGY

eters
you need

PRECISION TOOLING



DRILLS REINFORCED SHANK 5XD Z3 - COOLANT HOLES



ADVANCED HELIX

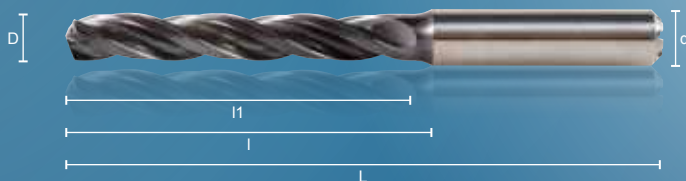


CONCAVE GEOMETRY OF THE CUTTING EDGES



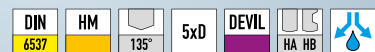
SELF-CENTERING SHARPENING

Machining of long and short chipping materials, such as: construction and case hardening steels, cast steel, tempering steel and alloy steel with $R \leq 1200 \text{ N/mm}^2$, as well as for carbon steel and cast.



CODE	L22	HT	D mm	d mm	l mm	L mm	l1 mm
A004503,0	422,40	73,00	3,00	6	28	66	23
A004503,5	422,40	73,00	3,50	6	28	66	23
A004504,0	420,60	72,00	4,00	6	36	74	29
A004504,5	420,60	72,00	4,50	6	44	82	29
A004505,0	420,60	72,00	5,00	6	44	82	35
A004505,5	420,60	72,00	5,50	6	44	82	35
A004506,0	420,60	72,00	6,00	6	44	82	35
A004506,5	459,40	96,00	6,50	8	53	91	43
A004506,8	459,40	96,00	6,80	8	53	91	43
A004507,0	459,40	96,00	7,00	8	53	91	43

SPECS



MATERIALS



CODE	L22	HT	D mm	d mm	l mm	L mm	l1 mm
A004508,0	459,40	96,00	8,00	8	53	91	43
A004508,5	494,40	116,00	8,50	10	61	103	51
A004509,0	494,40	116,00	9,00	10	61	103	51
A004510,0	494,40	116,00	10,00	10	61	103	51
A004510,2	269,60	162,00	10,20	12	71	118	61
A004510,5	269,60	162,00	10,50	12	71	118	61
A004511,0	269,60	162,00	11,00	12	71	118	61
A004511,5	269,60	162,00	11,50	12	71	118	61
A004512,0	269,60	162,00	12,00	12	71	118	61

DRILLS REINFORCED SHANK 3XD COOLANT HOLES



SPECS

MATERIALS



CODE	L22	HT	D mm	d mm	I mm	L mm	I1 mm
A00203	54,60	31,00	3,00	6	20	62	14
A00203,1	54,60	31,00	3,10	6	20	62	14
A00203,2	54,60	31,00	3,20	6	20	62	14
A00203,3	54,60	31,00	3,30	6	20	62	14
A00203,4	54,60	31,00	3,40	6	20	62	14
A00203,5	54,60	31,00	3,50	6	20	62	14
A00203,7	54,60	31,00	3,70	6	20	62	14
A00203,8	54,60	31,00	3,80	6	24	66	17
A00203,9	54,60	31,00	3,90	6	24	66	17
A00204	53,90	32,00	4,00	6	24	66	17
A00204,1	55,70	32,00	4,10	6	24	66	17
A00204,2	53,90	32,00	4,20	6	24	66	17
A00204,3	55,70	32,00	4,30	6	24	66	17
A00204,4	55,70	32,00	4,40	6	24	66	17
A00204,5	53,90	32,00	4,50	6	24	66	17
A00204,6	55,70	32,00	4,60	6	24	66	17
A00204,7	55,70	32,00	4,70	6	24	66	17
A00204,8	53,90	32,00	4,80	6	24	66	20
A00204,9	55,70	32,00	4,90	6	24	66	20
A00205	53,90	32,00	5,00	6	28	66	20
A00205,1	53,90	32,00	5,10	6	28	66	20
A00205,2	53,90	32,00	5,20	6	28	66	20
A00205,3	53,90	32,00	5,30	6	28	66	20
A00205,5	53,90	32,00	5,50	6	28	66	20
A00205,6	55,70	32,00	5,60	6	28	66	20
A00205,7	55,70	36,00	5,70	6	28	66	20
A00205,8	55,70	32,00	5,80	6	28	66	20

CODE	L22	HT	D mm	d mm	I mm	L mm	I1 mm
A00205,9	55,70	32,00	5,90	6	28	66	20
A00206	53,90	32,00	6,00	6	28	66	20
A00206,1	73,40	44,00	6,10	8	34	79	24
A00206,2	73,40	44,00	6,20	8	34	79	24
A00206,3	73,40	44,00	6,30	8	34	79	24
A00206,4	73,40	44,00	6,40	8	34	79	24
A00206,5	73,40	44,00	6,50	8	34	79	24
A00206,8	73,40	44,00	6,80	8	34	79	24
A00206,9	73,40	44,00	6,90	8	34	79	24
A00207	73,40	44,00	7,00	8	34	79	24
A00207,1	73,40	44,00	7,10	8	34	79	29
A00207,2	73,40	44,00	7,20	8	34	79	29
A00207,3	73,40	49,00	7,30	8	34	79	29
A00207,4	73,40	44,00	7,40	8	41	79	29
A00207,5	73,40	44,00	7,50	8	41	79	29
A00207,7	73,40	44,00	7,70	8	41	79	29
A00207,8	73,40	44,00	7,80	8	41	79	29
A00207,9	73,40	44,00	7,90	8	41	79	29
A00208	73,40	44,00	8,00	8	41	79	29
A00208,1	82,60	50,00	8,10	10	47	89	35
A00208,2	82,60	50,00	8,20	10	47	89	35
A00208,3	82,60	50,00	8,30	10	47	89	35
A00208,4	82,60	50,00	8,40	10	47	89	35
A00208,5	82,60	50,00	8,50	10	47	89	35
A00208,6	82,60	50,00	8,60	10	47	89	35
A00208,7	82,60	50,00	8,70	10	47	89	35
A00208,8	82,60	50,00	8,80	10	47	89	35

CODE	L22	HT	D mm	d mm	I mm	L mm	I1 mm
A00209	82,60	50,00	9,00	10	47	89	35
A00209,2	84,90	50,00	9,20	10	47	89	35
A00209,3	82,60	50,00	9,30	10	47	89	35
A00209,5	82,60	50,00	9,50	10	47	89	35
A00209,7	82,60	55,00	9,70	10	47	89	35
A00209,8	82,60	50,00	9,80	10	47	89	35
A00210	82,60	50,00	10,00	10	47	89	35
A00210,2	447,90	71,00	10,20	12	55	102	40
A00210,5	447,90	71,00	10,50	12	55	102	40
A00210,8	447,90	71,00	10,80	12	55	102	40
A00211	447,90	71,00	11,00	12	55	102	40
A00211,2	447,90	71,00	11,20	12	55	102	40
A00211,5	447,90	71,00	11,50	12	55	102	40
A00211,8	447,90	71,00	11,80	12	55	102	40
A00212	447,90	71,00	12,00	12	55	102	40
A00212,2	453,90	92,00	12,20	14	60	107	43
A00212,5	453,90	92,00	12,50	14	60	107	43
A00212,8	453,90	92,00	12,80	14	60	107	43
A00213	453,90	92,00	13,00	14	60	107	43
A00213,5	453,90	92,00	13,50	14	60	107	43
A00213,8	453,90	92,00	13,80	14	60	107	43
A00214	453,90	92,00	14,00	14	60	107	43
A00214,5	473,60	104,00	14,50	14	60	107	43
A00215	473,60	104,00	15,00	16	65	115	45
A00215,5	473,60	104,00	15,50	16	65	115	45
A00216	473,60	104,00	16,00	16	65	115	45

DRILLS REINFORCED SHANK 5XD COOLANT HOLES



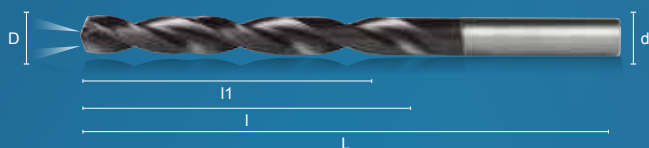
SPECS

MATERIALS



CODE	L22	HT	D mm	d mm	I mm	L mm	I1 mm
A00401	64,70	39,00	1,00	4	7	45	6
A00401,1	64,70	39,00	1,10	4	7,5	45	6
A00401,2	64,70	39,00	1,20	4	8,5	45	7
A00401,3	64,70	39,00	1,30	4	9	45	7
A00401,4	64,70	39,00	1,40	4	10	45	8
A00401,5	64,70	39,00	1,50	4	10,5	50	8
A00401,6	64,70	39,00	1,60	4	11	50	9
A00401,7	64,70	39,00	1,70	4	12	50	9
A00401,8	64,70	39,00	1,80	4	12,5	50	10
A00401,85	90,70	54,00	1,85	4	12,5	50	10
A00401,9	64,70	39,00	1,90	4	13,5	50	10
A00402	64,70	39,00	2,00	4	14	55	11
A00402,1	64,70	39,00	2,10	4	14,5	55	12
A00402,2	64,70	39,00	2,20	4	15,5	55	12
A00402,3	64,70	39,00	2,30	4	16	55	13
A00402,4	64,70	39,00	2,40	4	17	55	13
A00402,5	64,70	39,00	2,50	4	17,5	55	14
A00402,6	64,70	39,00	2,60	4	18	55	14
A00402,7	64,70	39,00	2,70	4	19	55	15
A00402,8	64,70	39,00	2,80	4	19,5	55	15
A00402,9	64,70	39,00	2,90	4	20,5	55	16
A00403	60,20	42,00	3,00	6	28	66	23
A00403,1	60,20	42,00	3,10	6	28	66	23
A00403,2	60,20	42,00	3,20	6	28	66	23
A00403,3	60,20	42,00	3,30	6	28	66	23
A00403,4	60,20	42,00	3,40	6	28	66	23
A00403,5	60,20	42,00	3,50	6	28	66	23
A00403,6	60,20	42,00	3,60	6	28	66	23
A00403,7	60,20	42,00	3,70	6	28	66	23
A00403,8	60,20	42,00	3,80	6	36	74	29
A00403,9	60,20	42,00	3,90	6	36	74	29
A00404	74,50	45,00	4,00	6	36	74	29
A00404,1	74,50	45,00	4,10	6	36	74	29
A00404,2	74,50	45,00	4,20	6	36	74	29
A00404,3	74,50	45,00	4,30	6	36	74	29
A00404,4	74,50	45,00	4,40	6	36	74	29
A00404,5	74,50	45,00	4,50	6	36	74	29
A00404,6	74,50	45,00	4,60	6	36	74	29
A00404,7	74,50	45,00	4,70	6	36	74	29
A00404,8	74,50	45,00	4,80	6	44	82	35
A00404,9	74,50	45,00	4,90	6	44	82	35
A00405	74,50	45,00	5,00	6	44	82	35

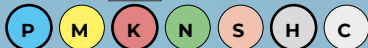
CODE	L22	HT	D	d	I	L	I1
A00405,1	74,50	45,00	5,10	6	44	82	35
A00405,2	74,50	45,00	5,20	6	44	82	35
A00405,3	74,50	45,00	5,30	6	44	82	35
A00405,4	74,50	45,00	5,40	6	44	82	35
A00405,5	74,50	45,00	5,50	6	44	82	35
A00405,6	74,50	45,00	5,60	6	44	82	35
A00405,7	74,50	45,00	5,70	6	44	82	35
A00405,8	74,50	45,00	5,80	6	44	82	35
A00405,9	74,50	45,00	5,90	6	44	82	35
A00406	74,50	45,00	6,00	6	53	82	35
A00406,1	81,80	49,00	6,10	8	53	82	43
A00406,2	81,80	49,00	6,20	8	53	82	43
A00406,3	81,80	49,00	6,30	8	53	82	43
A00406,4	81,80	49,00	6,40	8	53	82	43
A00406,5	81,80	49,00	6,50	8	53	91	43
A00406,6	81,80	49,00	6,60	8	53	91	43
A00406,7	81,80	49,00	6,70	8	53	91	43
A00406,8	81,80	49,00	6,80	8	53	91	43
A00406,9	81,80	49,00	6,90	8	53	91	43
A00407	81,80	49,00	7,00	8	53	91	43
A00407,1	81,80	49,00	7,10	8	53	91	43
A00407,2	81,80	49,00	7,20	8	53	91	43
A00407,3	81,80	49,00	7,30	8	53	91	43
A00407,4	81,80	49,00	7,40	8	53	91	43
A00407,5	81,80	49,00	7,50	8	53	91	43
A00407,6	81,80	49,00	7,60	8	53	91	43
A00407,7	81,80	49,00	7,70	8	53	91	43
A00407,8	81,80	49,00	7,80	8	53	91	43
A00407,9	81,80	49,00	7,90	8	53	91	43
A00408	81,80	49,00	8,00	8	53	91	43
A00408,1	94,60	57,00	8,10	10	61	91	49
A00408,2	94,60	57,00	8,20	10	61	91	49
A00408,3	94,60	57,00	8,30	10	61	91	49
A00408,4	94,60	57,00	8,40	10	61	91	49
A00408,5	94,60	57,00	8,50	10	61	103	49
A00408,6	94,60	57,00	8,60	10	61	103	49
A00408,7	94,60	57,00	8,70	10	61	103	49
A00408,8	94,60	57,00	8,80	10	61	103	49
A00408,9	94,60	57,00	8,90	10	61	103	49
A00409	94,60	57,00	9,00	10	61	103	49
A00409,1	94,60	57,00	9,10	10	61	103	49
A00409,2	94,60	57,00	9,20	10	61	103	49



SPECS



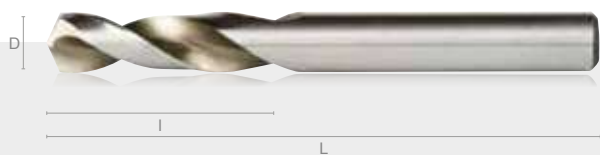
MATERIALS



CODE	L22	HT	D mm	d mm	l mm	L mm	l1 mm
A00504	427,90	77,00	4,00	6	43	81	36
A00504,1	427,90	77,00	4,10	6	43	81	36
A00504,2	427,90	77,00	4,20	6	43	81	36
A00504,3	427,90	77,00	4,30	6	43	81	36
A00504,5	427,90	77,00	4,50	6	43	81	36
A00504,6	427,90	77,00	4,60	6	43	81	36
A00504,7	427,90	77,00	4,70	6	43	81	36
A00504,8	427,90	77,00	4,80	6	57	95	48
A00504,9	427,90	77,00	4,90	6	57	95	48
A00505	427,90	77,00	5,00	6	57	95	48
A00505,1	427,90	77,00	5,10	6	57	95	48
A00505,2	427,90	77,00	5,20	6	57	95	48
A00505,3	427,90	77,00	5,30	6	57	95	48
A00505,5	427,90	77,00	5,50	6	57	95	48
A00505,8	427,90	77,00	5,80	6	57	95	48
A00505,9	427,90	77,00	5,90	6	57	95	48
A00506	427,90	77,00	6,00	6	57	95	48
A00506,1	459,20	96,00	6,10	8	76	114	64
A00506,2	459,20	96,00	6,20	8	76	114	64
A00506,3	459,20	96,00	6,30	8	76	114	64
A00506,5	459,20	96,00	6,50	8	76	114	64
A00506,6	459,20	96,00	6,60	8	76	114	64
A00506,7	459,20	96,00	6,70	8	76	114	64
A00506,8	459,20	96,00	6,80	8	76	114	64
A00507	459,20	96,00	7,00	8	76	114	64
A00507,4	459,20	96,00	7,40	8	76	114	64
A00507,5	459,20	96,00	7,50	8	76	114	64
A00507,7	459,20	96,00	7,70	8	76	114	64
A00507,8	459,20	96,00	7,80	8	76	114	64
A00508	459,20	96,00	8,00	8	76	114	64
A00508,5	495,20	117,00	8,50	10	95	142	80
A00509	495,20	117,00	9,00	10	95	142	80
A00509,1	495,20	117,00	9,10	10	95	142	80
A00509,5	495,20	117,00	9,50	10	95	142	80
A005010	495,20	117,00	10,00	10	95	142	80
A005010,5	260,20	161,00	10,50	12	114	162	96
A005011	260,20	161,00	11,00	12	114	162	96
A005011,5	260,20	161,00	11,50	12	114	162	96
A005012	260,20	161,00	12,00	12	114	162	96
A005012,5	404,50	241,00	12,50	14	133	178	112
A005013	404,50	241,00	13,00	14	133	178	112
A005013,5	404,50	241,00	13,50	14	133	178	112
A005014	404,50	241,00	14,00	14	133	178	112
A005014,5	529,40	318,00	14,50	16	152	203	128
A005015	529,40	318,00	15,00	16	152	203	128
A005015,5	529,40	318,00	15,50	16	152	203	128
A005016	529,40	318,00	16,00	16	152	203	128

FOLLOW THE
KERFOLG 
PROGRAM
FOR YOUR MACHINING
OPERATION

STUB DRILLS



CODE	L22	HT	D mm	I mm	L mm
A10301,5	2,74	1,64	1.50	9	32
A10302	2,94	1,76	2,00	12	38
A10302,5	3,18	1,91	2.50	14	43
A10303	3,59	2,15	3,00	16	46
A10303,1	4,19	2,51	3.10	18	49
A10303,2	3,89	2,33	3.20	18	49
A10303,3	3,97	2,38	3.30	18	49
A10303,5	3,84	2,30	3.50	20	52
A10303,8	4,48	2,69	3.80	22	55
A10304	4,72	2,83	4,00	22	55
A10304,2	4,42	2,65	4.20	22	55
A10304,3	5,37	3,22	4.30	24	58
A10304,5	6,16	3,10	4.50	24	58
A10304,8	6,28	3,17	4.80	26	62
A10305	5,65	3,39	5,00	26	62
A10305,1	6,52	3,91	5.10	26	62
A10305,2	6,32	3,79	5.20	26	62
A10305,3	6,76	4,06	5.30	26	62

SPECS

DIN	HSSE	130°	N/R	HA
1897				

MATERIALS

P	M	K	N	S	H	C

CODE	L22	HT	D mm	I mm	L mm
A10305,5	6,98	3,59	5.50	28	66
A10306	7,43	4,46	6,00	28	66
A10306,2	7,34	4,39	6.20	31	70
A10306,5	7,66	4,60	6.50	31	70
A10306,7	7,54	4,52	6.70	31	70
A10306,8	8,59	5,15	6.80	34	74
A10307	8,36	5,02	7,00	34	74
A10307,5	9,35	5,61	7.50	34	74
A10308	10,02	6,01	8,00	37	79
A10308,5	11,82	7,09	8.50	37	79
A10309	12,86	7,72	9,00	40	84
A10309,5	13,86	8,32	9.50	40	84
A103010	14,44	9,67	10,00	43	89
A103010,5	14,44	10,88	10.50	43	89
A103011	16,14	10,88	11,00	47	95
A103011,5	19,64	11,78	11.50	47	95
A103012	21,29	12,77	12,00	51	102
A103013	22,06	13,23	13,00	51	102

JOBBER DRILLS



CODE	L22	HT	D mm	I mm	L mm
A11903	14,87	8,92	3,00	33	61
A11903,1	16,60	9,96	3,10	36	65
A11903,2	15,85	9,51	3,20	36	65
A11903,3	15,85	9,51	3,30	36	65
A11903,4	17,24	10,33	3,40	39	70
A11903,5	15,85	9,51	3,50	39	70
A11903,6	17,24	10,33	3,60	39	70
A11903,8	17,44	10,46	3,80	43	75
A11904	16,10	9,66	4,00	43	75
A11904,1	17,82	10,69	4,10	43	75
A11904,2	17,82	10,69	4,20	43	75
A11904,5	17,82	10,69	4,50	47	80
A11904,7	18,60	11,21	4,70	47	80
A11904,8	18,60	11,21	4,80	52	86
A11905	17,44	10,46	5,00	52	86
A11905,2	18,92	11,35	5,20	52	86
A11905,4	20,03	12,02	5,40	57	93
A11905,5	20,64	12,38	5,50	57	93
A11905,6	20,03	12,02	5,60	57	93
A11905,8	20,03	12,02	5,80	57	93
A11906	19,78	11,87	6,00	57	93
A11906,1	22,62	13,57	6,10	63	101
A11906,3	26,30	15,78	6,30	63	101
A11906,5	31,45	18,87	6,50	63	101

SPECS

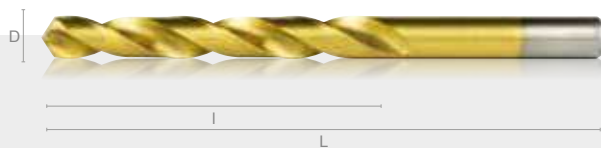
DIN	HSSE	130°	VA/R	DEVIL	HA
338					

MATERIALS

P	M	K	N	S	H	C

CODE	L22	HT	D mm	I mm	L mm
A11906,8	33,84	20,29	6,80	69	109
A11906,9	33,84	20,29	6,90	69	109
A11907	32,09	19,25	7,00	69	109
A11907,2	36,62	21,97	7,20	69	109
A11907,5	32,58	19,55	7,50	69	109
A11907,7	40,68	24,41	7,70	75	117
A11907,8	40,68	24,41	7,80	75	117
A11908	36,13	21,68	8,00	75	117
A11908,1	40,68	24,41	8,10	75	117
A11908,2	44,30	24,78	8,20	75	117
A11908,3	44,30	24,78	8,30	75	117
A11908,5	36,13	21,68	8,50	75	117
A11908,8	45,24	27,14	8,80	81	125
A11909	40,68	24,41	9,00	81	125
A11909,3	50,40	30,24	9,30	81	125
A11909,4	53,22	31,93	9,40	81	125
A11909,5	44,60	26,76	9,50	81	125
A119010	43,54	26,11	10,00	87	133
A119010,5	53,84	32,30	10,50	87	133
A119011	57,26	34,36	11,00	94	142
A119011,5	68,10	41,00	11,50	94	142
A119012	73,74	44,00	12,00	101	151
A119012,5	84,09	50,00	12,50	101	151
A119013	88,64	53,00	13,00	101	151

JOBBER DRILLS



CODE	L22	HT	D mm	I mm	L mm
A11801	3,02	2,29	1,00	12	34
A11801,1	3,02	2,35	1,10	14	36
A11801,2	3,02	2,29	1,20	16	38
A11801,3	3,73	2,24	1,30	16	38
A11801,4	3,62	2,11	1,40	18	40
A11801,5	3,28	1,97	1,50	18	40
A11801,6	3,33	2,00	1,60	20	43
A11801,7	3,28	1,97	1,70	20	43
A11801,8	2,93	1,76	1,80	22	46
A11801,9	2,93	1,76	1,90	22	46
A11802	2,24	1,33	2,00	24	49
A11802,1	2,93	1,76	2,10	24	49
A11802,2	2,93	1,76	2,20	27	53
A11802,3	2,93	1,76	2,30	27	53
A11802,4	2,93	1,76	2,40	30	57
A11802,5	2,64	1,58	2,50	30	57
A11802,6	3,42	1,87	2,60	30	57
A11802,7	3,42	1,87	2,70	33	61
A11802,8	3,47	1,90	2,80	33	61
A11802,9	3,47	1,90	2,90	33	61
A11803	2,37	1,42	3,00	33	61
A11803,1	3,28	1,97	3,10	36	65
A11803,2	2,96	1,78	3,20	36	65
A11803,3	2,96	1,78	3,30	36	65
A11803,4	3,47	1,90	3,40	39	70
A11803,5	2,64	1,58	3,50	39	70
A11803,6	3,96	2,38	3,60	39	70
A11803,7	3,76	2,26	3,70	39	70
A11803,8	4,06	2,44	3,80	43	75
A11803,9	3,96	2,38	3,90	43	75
A11804	2,08	1,73	4,00	43	75
A11804,1	4,25	2,55	4,10	43	75
A11804,2	3,40	2,04	4,20	43	75
A11804,3	4,25	2,55	4,30	47	80
A11804,4	4,25	2,55	4,40	47	80
A11804,5	3,44	2,06	4,50	47	80
A11804,6	4,37	2,62	4,60	47	80
A11804,7	4,40	2,64	4,70	47	80
A11804,8	4,40	2,64	4,80	52	86
A11804,9	4,67	2,80	4,90	52	86
A11805	3,44	2,06	5,00	52	86
A11805,1	4,67	2,80	5,10	52	86
A11805,2	4,76	2,86	5,20	52	86
A11805,3	4,86	2,92	5,30	52	86
A11805,4	5,60	3,36	5,40	57	93
A11805,5	4,70	2,82	5,50	57	93
A11805,6	5,60	3,36	5,60	57	93
A11805,7	5,74	3,44	5,70	57	93
A11805,8	5,74	3,44	5,80	57	93

SPECS

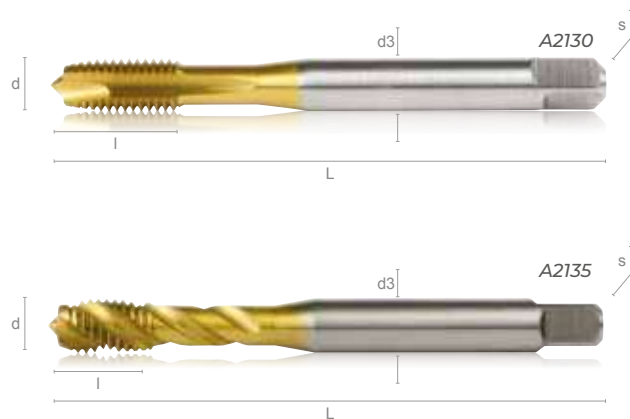


MATERIALS



CODE	L22	HT	D mm	I mm	L mm
A11805,9	5,93	3,56	5,90	57	93
A11806	4,70	2,82	6,00	57	93
A11806,1	6,29	3,77	6,10	63	101
A11806,2	6,29	3,77	6,20	63	101
A11806,3	6,49	3,89	6,30	63	101
A11806,4	6,97	4,18	6,40	63	101
A11806,5	5,87	3,52	6,50	63	101
A11806,6	7,44	4,28	6,60	63	101
A11806,7	7,49	4,49	6,70	63	101
A11806,8	7,74	4,64	6,80	69	109
A11806,9	8,76	5,26	6,90	69	109
A11807	7,05	4,23	7,00	69	109
A11807,1	8,06	5,32	7,10	69	109
A11807,2	9,42	5,47	7,20	69	109
A11807,3	9,42	5,47	7,30	69	109
A11807,4	9,56	5,74	7,40	69	109
A11807,5	7,80	4,68	7,50	69	109
A11807,6	44,32	8,59	7,60	75	117
A11807,7	44,32	8,59	7,70	75	117
A11807,8	44,32	8,59	7,80	75	117
A11807,9	44,54	8,71	7,90	75	117
A11808	7,80	4,68	8,00	75	117
A11808,1	48,49	9,11	8,10	75	117
A11808,2	48,47	9,28	8,20	75	117
A11808,3	48,82	10,09	8,30	75	117
A11808,4	48,82	10,09	8,40	75	117
A11808,5	44,64	8,77	8,50	75	117
A11808,6	48,35	11,00	8,60	81	125
A11808,7	48,35	11,00	8,70	81	125
A11808,8	48,94	11,36	8,80	81	125
A11808,9	49,74	11,83	8,90	81	125
A11809	45,56	9,34	9,00	81	125
A11809,1	49,74	11,83	9,10	81	125
A11809,2	49,74	11,83	9,20	81	125
A11809,3	20,40	12,06	9,30	81	125
A11809,4	20,40	12,06	9,40	81	125
A11809,5	47,82	10,69	9,50	81	125
A11809,6	24,82	13,09	9,60	87	133
A11809,7	24,82	13,09	9,70	87	133
A11809,8	23,84	14,30	9,80	87	133
A11809,9	23,84	14,30	9,90	87	133
A118010	48,86	11,32	10,00	87	133
A118010,2	22,20	13,32	10,20	87	133
A118010,5	26,44	15,86	10,50	87	133
A118011	30,86	18,52	11,00	94	142
A118011,5	34,32	20,59	11,50	94	142
A118012	37,49	22,31	12,00	101	151
A118012,5	42,97	25,78	12,50	101	151
A118013	46,55	27,93	13,00	101	151

STANDARD TAPS - M



SPECS



MATERIALS



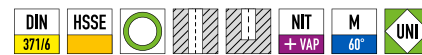
CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2130M2	35,35	21,21	2 x 0,4	45	8	2,8	2,1	1,6	371
A2130M2,5	30,85	18,51	2,5 x 0,45	50	9	2,8	2,1	2,05	371
A2130M3	27,99	16,79	3 x 0,5	56	10	3,5	2,7	2,5	371
A2130M4	27,99	16,79	4 x 0,7	63	12	4,5	3,4	3,3	371
A2130M5	27,99	16,79	5 x 0,8	70	14	6	4,9	4,2	371
A2130M6	27,99	16,79	6 x 1	80	16	6	4,9	5	371
A2130M8	34,69	20,81	8 x 1,25	90	18	8	6,2	6,8	371
A2130M10	44,06	24,66	10 x 1,5	100	20	10	8	8,5	371
A2130M12	50,50	30,30	12 x 1,75	110	25	9	7	10,2	376
A2130M14	66,98	40,00	14 x 2	110	25	11	9	12	376
A2130M16	74,32	45,00	16 x 2	110	28	12	9	14	376
A2130M18	94,99	55,00	18 x 2,5	125	32	14	11	15,5	376
A2130M20	124,27	75,00	20 x 2,5	140	32	16	12	17,5	376
A2130M22	124,84	75,00	22 x 2,5	140	32	18	14,5	19,5	376
A2130M24	164,32	111,00	24 x 3	160	36	18	14,5	21	376
A2130M27	223,17	134,00	27 x 3	160	36	20	16	24	376
A2130M30	262,70	158,00	30 x 3,5	180	40	22	18	26,5	376
A2130M33	340,70	187,00	33 x 3,5	180	40	25	20	29,5	376
A2135M2	32,61	19,57	2 x 0,4	45	6	2,8	2,1	1,6	371
A2135M2,5	32,61	19,57	2,5 x 0,45	50	6,5	2,8	2,1	1,9	371
A2135M3	30,19	18,11	3 x 0,5	56	7	3,5	2,7	2,5	371
A2135M4	30,19	18,11	4 x 0,7	63	8,5	4,5	3,4	3,3	371
A2135M5	30,19	18,11	5 x 0,8	70	10	6	4,9	4,2	371
A2135M6	30,19	18,11	6 x 1	80	12	6	4,9	5,0	371
A2135M8	36,89	22,13	8 x 1,25	90	15	8	6,2	6,8	371
A2135M10	43,94	26,35	10 x 1,5	100	17,5	10	8	8,5	371
A2135M12	54,56	32,74	12 x 1,75	110	18	9	7	10,2	376
A2135M14	70,92	43,00	14 x 2	110	20,5	11	9	12	376
A2135M16	79,84	48,00	16 x 2	110	20,5	12	9	14	376
A2135M18	99,78	60,00	18 x 2,5	125	25,5	14	11	15,5	376
A2135M20	131,95	79,00	20 x 2,5	140	29,5	16	12	17,5	376
A2135M22	140,34	89,00	22 x 2,5	140	29,5	18	14,5	19,5	376
A2135M24	193,67	116,00	24 x 3	160	35,5	18	14,5	21	376
A2135M27	235,80	141,00	27 x 3	160	37,5	20	16	24	376
A2135M30	279,17	168,00	30 x 3,5	180	42	22	18	26,5	376



TAPS FOR UNIVERSAL APPLICATIONS - M



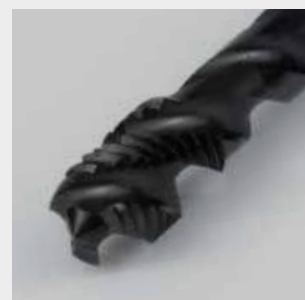
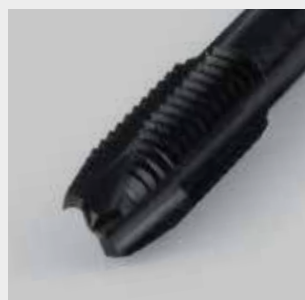
SPECS



MATERIALS



CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2102M2	32,36	19,42	2 x 0,4	45	7	2,8	2,1	1,6	371
A2102M2,5	31,29	18,77	2,5 x 0,45	50	9	2,8	2,1	2,05	371
A2102M3	29,88	14,33	3 x 0,5	56	11	3,5	2,7	2,5	371
A2102M4	24,24	14,54	4 x 0,7	63	13	4,5	3,4	3,3	371
A2102M5	24,72	14,83	5 x 0,8	70	14	6	4,9	4,2	371
A2102M6	24,72	14,83	6 x 1	80	17	6	4,9	5	371
A2102M8	27,82	16,69	8 x 1,25	90	20	8	6,2	6,8	371
A2102M10	33,92	20,35	10 x 1,5	100	22	10	8	8,5	371
A2102M12	43,11	25,87	12 x 1,75	110	24	9	7	10,2	376
A2102M14	65,80	39,50	14 x 2	110	26	11	9	12	376
A2102M16	63,41	38,00	16 x 2	110	27	12	9	14	376
A2102M18	106,64	64,00	18 x 2,5	125	30	14	11	15,5	376
A2102M20	96,60	58,00	20 x 2,5	140	32	16	12	17,5	376
A2102M22	160,49	96,00	22 x 2,5	140	32	18	14,5	19,5	376
A2102M24	132,94	80,00	24 x 3	160	34	18	14,5	21	376
A2102M27	183,34	110,00	27 x 3	160	36	20	16	24	376
A2102M30	212,66	128,00	30 x 3,5	180	40	22	18	26,5	376
A2103M2	32,36	19,42	2 x 0,4	45	4	2,8	2,1	1,6	371
A2103M2,5	32,96	19,78	2,5 x 0,45	50	5	2,8	2,1	2,05	371
A2103M3	24,72	14,83	3 x 0,5	56	6	3,5	2,7	2,5	371
A2103M4	25,68	15,41	4 x 0,7	63	7	4,5	3,4	3,3	371
A2103M5	26,15	15,69	5 x 0,8	70	8	6	4,9	4,2	371
A2103M6	26,98	16,19	6 x 1	80	10	6	4,9	5	371
A2103M8	31,64	18,98	8 x 1,25	90	14	8	6,2	6,8	371
A2103M10	38,33	23,00	10 x 1,5	100	16	10	8	8,5	371
A2103M12	47,16	28,30	12 x 1,75	110	18	9	7	10,2	376
A2103M14	71,53	43,00	14 x 2	110	20	11	9	12	376
A2103M16	67,23	40,00	16 x 2	110	22	12	9	14	376
A2103M18	116,07	70,00	18 x 2,5	125	25	14	11	15,5	376
A2103M20	102,70	62,00	20 x 2,5	140	25	16	12	17,5	376
A2103M22	160,49	96,00	22 x 2,5	140	27	18	14,5	19,5	376
A2103M24	137,99	83,00	24 x 3	160	30	18	14,5	21	376
A2103M27	192,26	115,00	27 x 3	160	30	20	16	24	376
A2103M30	234,66	139,00	30 x 3,5	180	35	22	18	26,5	376



TAPS FOR ALUMINIUM - M



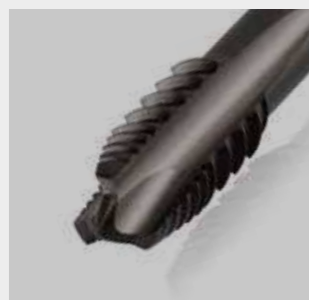
SPECS



MATERIALS



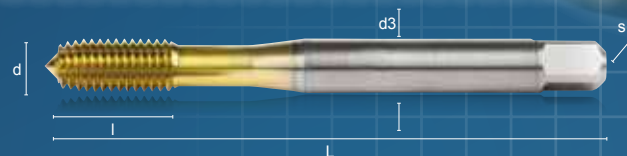
CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2260M3	34,72	19,03	3 x 0,5	56	10	3,5	2,7	2,5	371
A2260M4	32,64	19,57	4 x 0,7	63	12	4,5	3,4	3,3	371
A2260M5	32,64	19,57	5 x 0,8	70	14	6	4,9	4,2	371
A2260M6	32,64	19,57	6 x 1	80	16	6	4,9	5	371
A2260M8	39,85	23,91	8 x 1,25	90	18	8	6,2	6,8	371
A2260M10	46,33	27,80	10 x 1,5	100	20	10	8	8,5	371
A2260M12	58,62	35,17	12 x 1,75	110	24	9	7	10,2	376
A2260M14	74,54	45,00	14 x 2	110	25	11	9	12	376
A2260M16	84,34	51,00	16 x 2	110	28	12	9	14	376
A2265M3	36,68	21,41	3 x 0,5	56	7	3,5	2,7	2,5	371
A2265M4	36,68	21,41	4 x 0,7	63	8,5	4,5	3,4	3,3	371
A2265M5	36,68	21,41	5 x 0,8	70	10	6	4,9	4,2	371
A2265M6	36,68	21,41	6 x 1	80	12	6	4,9	5	371
A2265M8	44,16	24,70	8 x 1,25	90	15	8	6,2	6,8	371
A2265M10	48,85	29,31	10 x 1,5	100	17,5	10	8	8,5	371
A2265M12	60,27	36,16	12 x 1,75	110	18	9	7	10,2	376
A2265M14	78,93	47,00	14 x 2	110	20,5	11	9	12	376
A2265M16	88,15	53,00	16 x 2	110	20,5	12	9	14	376
A2265M18	110,33	66,00	18 x 2,5	125	25,5	14	11	15,5	376
A2265M20	146,67	88,00	20 x 2,5	140	29,5	16	12	17,5	376



FORMING TAP FOR BLIND AND THROUGH HOLES - M

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

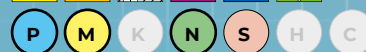
UNIVERSAL TOOL



SPECS



MATERIALS



CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm
A2358M2	66,85	40,00	2 x 0,4	45	7	2,8	2,1	1,85
A2358M2,5	48,85	29,31	2,5 x 0,45	50	9	2,8	2,1	2,3
A2358M3	46,40	27,66	3 x 0,5	56	10	3,5	2,7	2,8
A2358M4	45,89	27,53	4 x 0,7	63	12	4,5	3,4	3,7
A2358M5	45,56	27,34	5 x 0,8	70	14	6	4,9	4,65
A2358M6	45,34	27,20	6 x 1	80	16	6	4,9	5,55
A2358M8	56,54	33,92	8 x 1,25	90	18	8	6,2	7,40
A2358M10	70,37	42,00	10 x 1,5	100	20	10	8	9,30
A2358M12	82,44	49,00	12 x 1,75	110	25	9	7	11,2
A2358M14	106,26	64,00	14 x 2	110	25	11	9	13,1
A2358M16	131,85	79,00	16 x 2	110	28	12	9	15,1

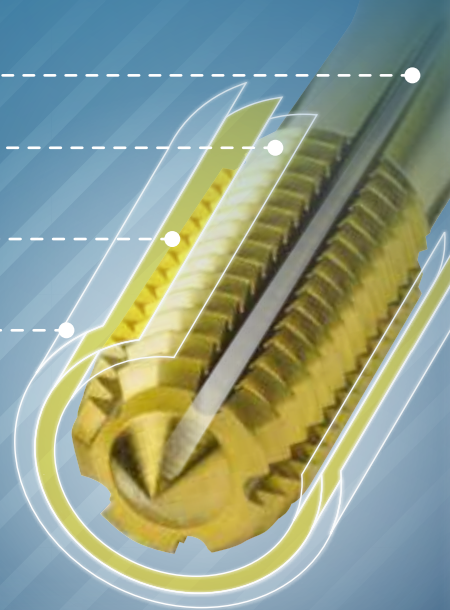
BASE MATERIAL

PRE-POLISHING

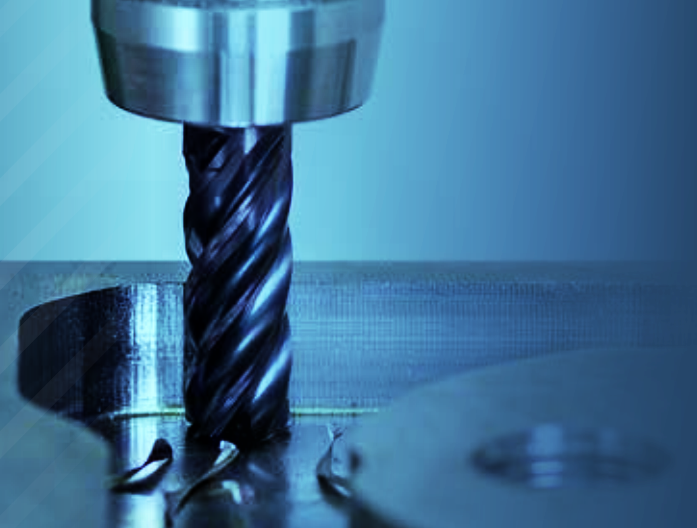
SPECIFIC COATING

POST-POLISHING

+30%
THREAD
RESISTANCE



FOLLOW THE KERFOLG PROGRAM FOR YOUR MACHINING OPERATION

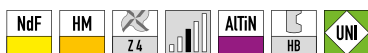


KERFOLG Vari Plus

END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



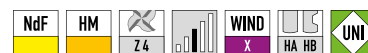
CODE	L22	HT	D mm	L mm	I mm	H mm	d mm	d3 mm	ch 45° mm	Z
A40404	62,50	37,50	4	57	11	14	6	3,8	0,1	4
A40405	47,90	28,20	5	57	13	17	6	4,8	0,1	4
A40406	47,90	28,20	6	57	13	17	6	5,8	0,1	4
A40407	66,80	40,00	7	63	21	25	8	6,8	0,2	4
A40408	64,70	39,00	8	63	21	25	8	7,7	0,2	4
A40409	90,20	54,00	9	72	22	27	10	8,7	0,2	4
A404010	94,30	57,00	10	72	22	27	10	9,7	0,2	4
A404012	126,80	76,00	12	83	26	32	12	11,6	0,3	4
A404014	143,10	86,00	14	83	26	32	14	13,6	0,3	4
A404016	196,10	118,00	16	92	36	43	16	15,5	0,3	4
A404020	308,50	185,00	20	104	41	51	20	19,5	0,3	4

KERFOLG

END MILLS WITH VARIABLE HELIX Z4



SPECS



MATERIALS



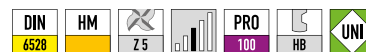
CODE	L22	HT	D mm	L mm	I mm	d mm	Z
A40433	20,10	12,06	3	50	9	3	4
A40434	20,10	12,06	4	50	11	4	4
A40435	20,10	12,06	5	50	13	6	4
A40436	20,10	12,06	6	50	16	6	4
A40438	30,90	18,54	8	60	20	8	4
A404310	45,20	27,12	10	75	25	10	4
A404312	64,90	39,00	12	75	30	12	4
A404316	137,30	82,00	16	100	36	16	4
A404320	165,50	99,00	20	100	45	20	4

KERFOLG Vari

END MILLS WITH VARIABLE PITCH Z5



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	d mm	r mm	Z
A405704	52,92	31,75	4	55	11	6	0,25	5
A405705	52,92	31,75	5	57	13	6	0,25	5
A405706	52,92	31,75	6	57	13	6	0,40	5
A405707	63,42	38,00	7	63	16	8	0,40	5
A405708	63,42	38,00	8	63	19	8	0,50	5
A405709	86,75	52,00	9	72	19	10	0,50	5
A405710	86,75	52,00	10	72	22	10	0,50	5
A405712	141,14	67,00	12	83	26	12	0,75	5
A405714	156,53	94,00	14	83	26	14	0,75	5
A405716	174,56	105,00	16	92	32	16	0,75	5
A405718	234,90	141,00	18	92	32	18	0,75	5
A405720	262,26	157,00	20	104	38	20	0,75	5
A405725	392,39	235,00	25	121	44	25	0,75	5

FOLLOW THE KERFOLG PROGRAM FOR YOUR MACHINING OPERATION

KERFOLG

SUPER FINISHING END MILLS



SPECS



MATERIALS



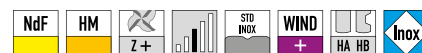
CODE	L22	HT	D mm	L mm	I mm	d mm	Z
A424006	76,40	46,00	6	80	33	6	6
A424008	94,80	57,00	8	100	40	8	6
A424010	143,50	86,00	10	100	55	10	6
A424012	217,80	131,00	12	120	65	12	6
A424016	406,20	244,00	16	150	85	16	8
A424020	558,70	335,00	20	160	100	20	8

KERFOLG Vari RAV

ROUGHING END MILLS MULTI-CUTTING-VARIABLE HELIX



SPECS



MATERIALS



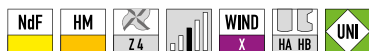
CODE	L22	HT	D mm	L mm	I mm	d mm	Z
A451606	88,50	53,00	6	57	13	6	4
A451608	102,80	62,00	8	63	19	8	4
A451610	123,50	74,00	10	72	22	10	4
A451612	148,50	89,00	12	83	26	12	4
A451616	239,10	143,00	16	92	32	16	6
A451620	368,30	216,00	20	104	38	20	6

KERFOLG

END MILLS WITH VARIABLE HELIX Z4



SPECS



MATERIALS



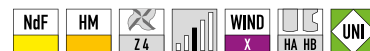
CODE	L22	HT	D mm	L mm	I mm	ch 45° mm	d mm	Z
A405304	20,50	12,30	4	57	11	0,15	6	4
A405306	20,50	12,30	6	50	16	0,20	6	4
A405308	34,50	18,90	8	60	20	0,20	8	4
A405310	47,30	28,38	10	75	25	0,30	10	4
A405312	65,60	39,00	12	75	30	0,30	12	4
A405316	141,80	85,00	16	100	36	0,40	16	4

KERFOLG

END MILLS WITH VARIABLE HELIX Z4



SPECS



MATERIALS



CODE	L22	HT	D mm	r mm	I mm	L mm	d mm	Z
A41160405	18,90	11,34	4	0,5	11	50	4	4
A41160605	28,90	17,34	6	0,5	16	50	6	4
A41160610	28,90	17,34	6	1,0	16	50	6	4
A41160805	40,40	24,24	8	0,5	20	60	8	4
A41160810	40,40	24,24	8	1,0	20	60	8	4
A41161005	55,70	33,42	10	0,5	25	75	10	4
A41161010	55,70	33,42	10	1,0	25	75	10	4
A41161205	68,30	41,00	12	0,5	30	75	12	4
A41161210	68,30	41,00	12	1,0	30	75	12	4

BUY 10 TOOL TOOTHED BITS AND GET 70% OFF

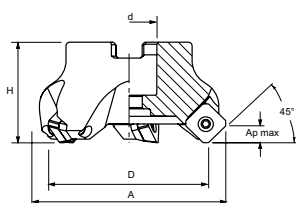
KERFOLG  **Face**

FACE MILLS FOR SINGLE-SIDE SQUARE INSERTS

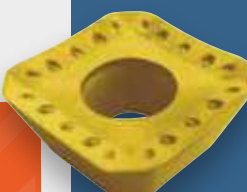
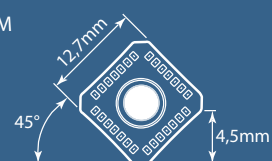
COUPLING TYPE
BORE

INSERT TYPE
SEHX 1204

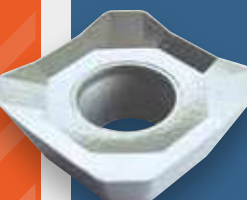
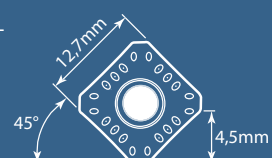
APPLICATION
FACE MILLING



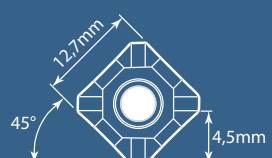
SEHX 1204...MM



SEHX 1204...ML



SEHX 1204...AL



-70%*

CODE	HT	Z	D mm	d mm	A mm	H mm	Ap max mm	Air hole	Insert
B3F0640Z3	204,75	3	40	16	53	40	6	With	SEHX 1204
B3F0650Z4	258,30	4	50	22	63	48	6	With	SEHX 1204
B3F0663Z5	305,55	5	63	22	76	48	6	With	SEHX 1204
B3F0680Z6	364,35	6	80	27	93	50	6	With	SEHX 1204
B3F06100Z8	408,45	8	100	32	113	50	6	With	SEHX 1204
B3F06125Z9	550,20	9	125	40	138	63	6	With	SEHX 1204

CUTTING CONDITIONS

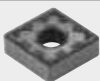
				P			M		K		N	S	H
CODE	HT	Description	Grade	<500 N/ mm²	<850 N/ mm²	<1200 N/ mm²	<600 N/ mm²	<850 N/ mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
B3B2112SNMM01	16,23	SEHX 1204 AFSN MM	PT30	●	●	○	○		○				
B3B2212SNML05	16,23	SEHX 1204 AFSN ML	MT30	●	○	○	●	●				○	
B3B2312SNAL10	17,51	SEHX 1204 AFFN AL	K10								●		

* 70 % discount on endmill every 10 tool toothed bits.

BUY 40 IDENTICAL BITS AND GET 10 BITS FREE*

KERFOLG  Turn

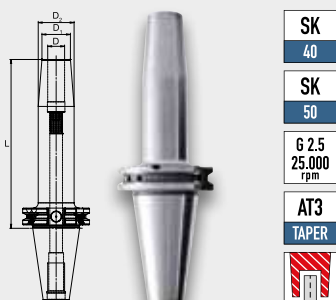
TURNING INSERTS

		C - SHAPE	D - SHAPE	S - SHAPE	T - SHAPE	V - SHAPE	W - SHAPE	P	M	K	N	S	H
													
TURNING NEGATIVE INSERTS	FIN.	FF	•	•				•	•	•			
		SF	•	•		•	•		•	○	○	•	
		CSF	•	•		•	•	•	○				
	MEDIUM CUTTING	CM	•	•	•	•	•	•	○	•			
		SA	•	•	•	•	•		○			•	
		SM	•	•	•	•	•	○	•				
		CR	•	•	•	•	•	•	○				
		CMR	•		•	•	•	•	○	•			
	ROUGHING	CM2	•	•				•	○				
		CCM	•		•			•	○				
		CCR	•		•			•	○				

		C - SHAPE	D - SHAPE	K - SHAPE	R - SHAPE	S - SHAPE	T - SHAPE	V - SHAPE	P	M	K	N	S	H
														
INSERTI POSITIVI	FIN.	FFP	•	•			•		•	•	○			
		CFP	•	•				•	•	○				
		CMP	•	•	•	•	•	•	•	○				
	MEDIUM CUTTING	SMP	•	•		•	•	•	○	•				
		CLP			•				•	○				
		AFP	•	•		•	•	•	•		○		○	

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

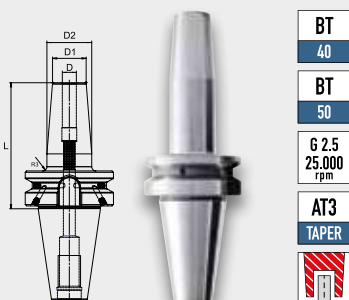
SHRINK FIT CHUCKS



SK
40
SK
50
G 2.5
25.000
rpm
AT3
TAPER

DIN69871 SK AD+B

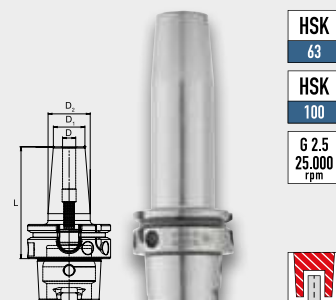
CODE	L22	HT	SK	D mm	L mm	D1 mm	D2 mm
C0066404080	425,00	106,00	40	4	80	12	20
C0066404120	442,00	121,00	40	4	120	12	20
C0066404160	461,00	137,00	40	4	160	12	20
C0066406080	87,00	74,00	40	6	80	21	27
C0066406120*	425,00	106,00	40	6	120	21	27
C0066406160*	447,00	125,00	40	6	160	21	27
C0066408080	87,00	74,00	40	8	80	21	27
C0066408120	425,00	106,00	40	8	120	21	27
C0066408160	447,00	125,00	40	8	160	21	27
C0066410080	87,00	74,00	40	10	80	24	32
C0066410120	425,00	106,00	40	10	120	24	32
C0066410160	447,00	125,00	40	10	160	24	32
C0066412080	87,00	74,00	40	12	80	24	32
C0066412120	425,00	106,00	40	12	120	24	32
C0066412160	447,00	125,00	40	12	160	24	32
C0066416080	87,00	74,00	40	16	80	27	34
C0066416120	425,00	106,00	40	16	120	27	34
C0066416160	447,00	125,00	40	16	160	27	34
C0066420080	87,00	74,00	40	20	80	33	42
C0066420120	425,00	106,00	40	20	120	33	42
C0066420160	447,00	125,00	40	20	160	33	42
C0066506080	463,00	139,00	50	6	80	21	27
C0066508080	463,00	139,00	50	8	80	21	27
C0066510080	463,00	139,00	50	10	80	24	32
C0066512080	463,00	139,00	50	12	80	24	32
C0066516080	463,00	139,00	50	16	80	27	34
C0066520080	463,00	139,00	50	20	80	33	42
C0066525100	463,00	139,00	50	25	100	44	53
C0066532100	463,00	139,00	50	32	100	44	53



BT
40
BT
50
G 2.5
25.000
rpm
AT3
TAPER

MAS 403 BT AD+B

CODE	L22	HT	BT	D mm	L mm	D1 mm	D2 mm
C1066404090	433,00	113,00	40	4	90	12	20
C1066406090	417,00	99,00	40	6	90	21	27
C1066408090	417,00	99,00	40	8	90	21	27
C1066408160	454,00	131,00	40	8	160	21	27
C1066410090	417,00	99,00	40	10	90	24	32
C1066410160	454,00	131,00	40	10	160	24	32
C1066412090	417,00	99,00	40	12	90	24	32
C1066412160	454,00	131,00	40	12	160	24	32
C1066416090	417,00	99,00	40	16	90	27	34
C1066420090	417,00	99,00	40	20	90	33	42
C1066506100	472,00	146,00	50	6	100	21	27
C1066508100	472,00	146,00	50	8	100	21	27
C1066510100	472,00	146,00	50	10	100	24	32
C1066512100	472,00	146,00	50	12	100	24	32
C1066516100	472,00	146,00	50	16	100	27	34
C1066520100	472,00	146,00	50	20	100	33	42
C1066525110	472,00	146,00	50	25	110	44	53
C1066532110	472,00	146,00	50	32	110	44	53



HSK
63
HSK
100
G 2.5
25.000
rpm

DIN 69893 HSK A

CODE	L22	HT	HSK	D mm	L mm	D1 mm	D2 mm
C2066604080	451,00	128,00	63	4	80	12	20
C2066606080	410,00	94,00	63	6	80	21	27
C2066608080	410,00	94,00	63	8	80	21	27
C2066610085	410,00	94,00	63	10	85	24	32
C2066612090	410,00	94,00	63	12	90	24	32
C2066616095	410,00	94,00	63	16	95	27	34
C2066620100	410,00	94,00	63	20	100	33	42
C2066106085	491,00	162,00	100	6	85	21	27
C2066108085	491,00	162,00	100	8	85	21	27
C2066110090	491,00	162,00	100	10	90	24	32
C2066112095	491,00	162,00	100	12	95	24	32
C2066116100	491,00	162,00	100	16	100	27	34
C2066120105	491,00	162,00	100	20	105	33	42
C2066125115	491,00	162,00	100	25	115	44	53
C2066132120	491,00	162,00	100	32	120	44	53

BILZ

1 SPLINING MACHINE PURCHASED

€ 4.200 ,00
C46201

FREE
1 THERMOGRIP SUPPORT



CODE

For chucks

C462501

SK40/BT40

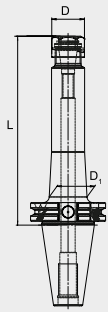
C462502

SK50/BT50

C462503

HSK63

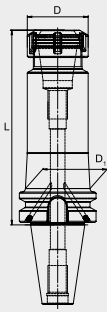
ER COLLET CHUCKS



SK
40
SK
50
6 2.5
25.000
rpm
AT3
TAPER

DIN69871 SK AD+B

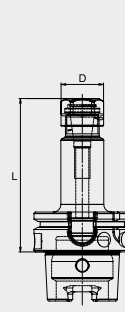
CODE	L22	HT	SK	ER	D mm	D1 mm	L mm
C0016416063	49,00	42,00	40	16	28	-	63
C0016416100	59,00	50,00	40	16	28	-	100
C0016416130	76,00	65,00	40	16	28	-	130
C0016416160	96,00	82,00	40	16	28	32	160
C0016425060	49,00	42,00	40	25	42	-	60
C0016425100	65,00	55,00	40	25	42	-	100
C0016425130	78,00	66,00	40	25	42	-	130
C0016425160	96,00	82,00	40	25	42	46	160
C0016432070	53,00	45,00	40	32	50	-	70
C0016432100	65,00	55,00	40	32	50	-	100
C0016432130	78,00	66,00	40	32	50	-	130
C0016432160	99,00	84,00	40	32	50	-	160
C0016440080	58,00	49,00	40	40	63	-	80
C0016440100	74,00	60,00	40	40	63	-	100
C0016440130	83,00	71,00	40	40	63	-	130
C0016440160	105,00	89,00	40	40	63	-	160
C0016525060	79,00	67,00	50	25	42	-	60
C0016525100	97,00	82,00	50	25	42	-	100
C0016525160	132,00	112,00	50	25	42	-	160
C0016532070	82,00	70,00	50	32	50	-	70
C0016532100	113,00	96,00	50	32	50	-	100
C0016532160	132,00	112,00	50	32	50	-	160
C0016540080	82,00	70,00	50	40	63	-	80
C0016540100	117,00	99,00	50	40	63	-	100
C0016540160	135,00	115,00	50	40	63	-	160



BT
40
BT
50
6 2.5
25.000
rpm
AT3
TAPER

MAS 403 BT AD+B

CODE	L22	HT	BT	ER	D mm	D1 mm	L mm
C1016416063	49,00	42,00	40	16	28	-	63
C1016416100	59,00	50,00	40	16	28	-	100
C1016416130	80,00	68,00	40	16	28	-	130
C1016425060	49,00	42,00	40	25	42	-	66
C1016425100	72,00	61,00	40	25	42	-	100
C1016425130	96,00	82,00	40	25	42	-	130
C1016432070	53,00	45,00	40	32	50	-	70
C1016432100	65,00	55,00	40	32	50	-	100
C1016132130	104,00	86,00	40	32	50	-	130
C1016432160	109,00	93,00	40	32	50	53,5	160
C1016440080	58,00	49,00	40	40	63	-	80
C1016440100	74,00	60,00	40	40	63	-	100
C1016516070	86,00	73,00	50	16	28	-	70
C1016516100	107,00	91,00	50	16	28	-	100
C1016525070	86,00	73,00	50	25	42	-	70
C1016525100	107,00	91,00	50	25	42	-	100
C1016532070	89,00	76,00	50	32	50	-	70
C1016532100	124,00	105,00	50	32	50	-	100



HSK
63
HSK
100
6 2.5
25.000
rpm

DIN 69893 HSK A

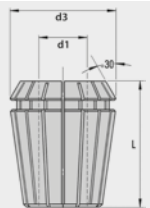
CODE	L22	HT	HSK	ER	D mm	L mm
C2016616100	95,00	81,00	63	16	28	100
C2016625100	124,00	105,00	63	25	42	100
C2016632100	124,00	105,00	63	32	50	100
C2016632160	124,00	103,00	63	32	50	160
C2016125100	89,00	76,00	100	25	42	100
C2016132100	95,00	81,00	100	32	50	100
C2016140120	131,00	111,00	100	40	63	120



SPRING COLLETS - STANDARD 0,01

CODE	L22	HT	d1 mm	d3 mm	L mm	Clamping mm	Type
C403016S1	16,40	8,20	1	16	27,5	0,5	ER16S
C403016S1,5	16,40	8,20	1,5	16	27,5	0,5	ER16S
C403016S2	16,40	8,20	2	16	27,5	0,5	ER16S
C403016S2,5	16,40	8,20	2,5	16	27,5	0,5	ER16S
C403016S3	16,40	8,20	3	16	27,5	1,0	ER16S
C403016S4	16,40	8,20	4	16	27,5	1,0	ER16S
C403016S5	16,40	8,20	5	16	27,5	1,0	ER16S
C403016S6	16,40	8,20	6	16	27,5	1,0	ER16S
C403016S7	16,40	8,20	7	16	27,5	1,0	ER16S
C403016S8	16,40	8,20	8	16	27,5	1,0	ER16S
C403016S9	16,40	8,20	9	16	27,5	1,0	ER16S
C403016S10	16,40	8,20	10	16	27,5	1,0	ER16S
C404020S1	17,00	8,50	1	20	31,5	0,5	ER20S
C404020S1,5	21,00	10,50	1,5	20	31,5	0,5	ER20S
C404020S2	17,00	8,50	2	20	31,5	0,5	ER20S
C404020S2,5	17,00	8,50	2,5	20	31,5	0,5	ER20S
C404020S3	17,00	8,50	3	20	31,5	1,0	ER20S
C404020S4	17,00	8,50	4	20	31,5	1,0	ER20S
C404020S5	17,00	8,50	5	20	31,5	1,0	ER20S
C404020S6	17,00	8,50	6	20	31,5	1,0	ER20S
C404020S7	17,00	8,50	7	20	31,5	1,0	ER20S
C404020S8	17,00	8,50	8	20	31,5	1,0	ER20S
C404020S9	17,00	8,50	9	20	31,5	1,0	ER20S
C404020S10	17,00	8,50	10	20	31,5	1,0	ER20S
C404020S11	17,00	8,50	11	20	31,5	1,0	ER20S
C404020S12	17,00	8,50	12	20	31,5	1,0	ER20S
C404020S13	17,00	8,50	13	20	31,5	1,0	ER20S

CODE	L22	HT	d1 mm	d3 mm	L mm	Clamping mm	Type
C405025S1	17,70	8,85	1	25	34	0,5	ER25S
C405025S1,5	17,70	8,85	1,5	25	34	0,5	ER25S
C405025S2	18,20	9,10	2	25	34	0,5	ER25S
C405025S2,5	18,20	9,10	2,5	25	34	0,5	ER25S
C405025S3	18,40	7,05	3	25	34	1,0	ER25S
C405025S4	18,40	7,05	4	25	34	1,0	ER25S
C405025S5	18,40	7,05	5	25	34	1,0	ER25S
C405025S6	18,40	7,05	6	25	34	1,0	ER25S
C405025S7	18,40	7,05	7	25	34	1,0	ER25S
C405025S8	18,40	7,05	8	25	34	1,0	ER25S
C405025S9	18,40	7,05	9	25	34	1,0	ER25S
C405025S10	18,40	7,05	10	25	34	1,0	ER25S
C405025S11	18,40	7,05	11	25	34	1,0	ER25S
C405025S12	18,40	7,05	12	25	34	1,0	ER25S
C405025S13	18,40	7,05	13	25	34	1,0	ER25S
C405025S14	18,40	7,05	14	25	34	1,0	ER25S
C405025S15	18,40	7,05	15	25	34	1,0	ER25S
C405025S16	18,40	7,05	16	25	34	1,0	ER25S
C406032S3	18,40	7,20	3	32	40	1,0	ER32S
C406032S4	18,40	7,20	4	32	40	1,0	ER32S
C406032S5	18,40	7,20	5	32	40	1,0	ER32S
C406032S6	18,40	7,20	6	32	40	1,0	ER32S
C406032S7	18,40	7,20	7	32	40	1,0	ER32S
C406032S8	18,40	7,20	8	32	40	1,0	ER32S
C406032S9	18,40	7,20	9	32	40	1,0	ER32S
C406032S10	18,40	7,20	10	32	40	1,0	ER32S
C406032S11	18,40	7,20	11	32	40	1,0	ER32S
C406032S12	18,40	7,20	12	32	40	1,0	ER32S
C406032S13	18,40	7,20	13	32	40	1,0	ER32S
C406032S14	18,40	7,20	14	32	40	1,0	ER32S
C406032S15	18,40	7,20	15	32	40	1,0	ER32S
C406032S16	18,40	7,20	16	32	40	1,0	ER32S
C406032S17	18,40	7,20	17	32	40	1,0	ER32S
C406032S18	18,40	7,20	18	32	40	1,0	ER32S
C406032S19	18,40	7,20	19	32	40	1,0	ER32S
C406032S20	18,40	7,20	20	32	40	1,0	ER32S



CODE	L22	HT	d1 mm	d3 mm	L mm	Clamping mm	Type
C407040S4	20,90	10,45	4	41	46	1,0	ER40S
C407040S5	20,90	10,45	5	41	46	1,0	ER40S
C407040S6	20,90	10,25	6	41	46	1,0	ER40S
C407040S7	20,90	10,25	7	41	46	1,0	ER40S
C407040S8	20,90	10,25	8	41	46	1,0	ER40S
C407040S9	20,90	10,45	9	41	46	1,0	ER40S
C407040S10	20,90	10,25	10	41	46	1,0	ER40S
C407040S11	20,90	10,25	11	41	46	1,0	ER40S
C407040S12	20,90	10,25	12	41	46	1,0	ER40S
C407040S13	20,90	10,25	13	41	46	1,0	ER40S
C407040S14	20,90	10,25	14	41	46	1,0	ER40S
C407040S15	20,90	10,45	15	41	46	1,0	ER40S
C407040S16	20,90	10,25	16	41	46	1,0	ER40S
C407040S17	20,90	10,45	17	41	46	1,0	ER40S
C407040S18	20,90	10,45	18	41	46	1,0	ER40S
C407040S19	20,90	10,25	19	41	46	1,0	ER40S
C407040S20	20,90	10,25	20	41	46	1,0	ER40S
C407040S21	20,90	10,25	21	41	46	1,0	ER40S
C407040S22	20,90	10,45	22	41	46	1,0	ER40S
C407040S23	20,90	10,25	23	41	46	1,0	ER40S
C407040S24	20,90	10,25	24	41	46	1,0	ER40S
C407040S25	20,90	10,25	25	41	46	1,0	ER40S
C407040S26	20,90	10,25	26	41	46	1,0	ER40S

VACUUM PLATES

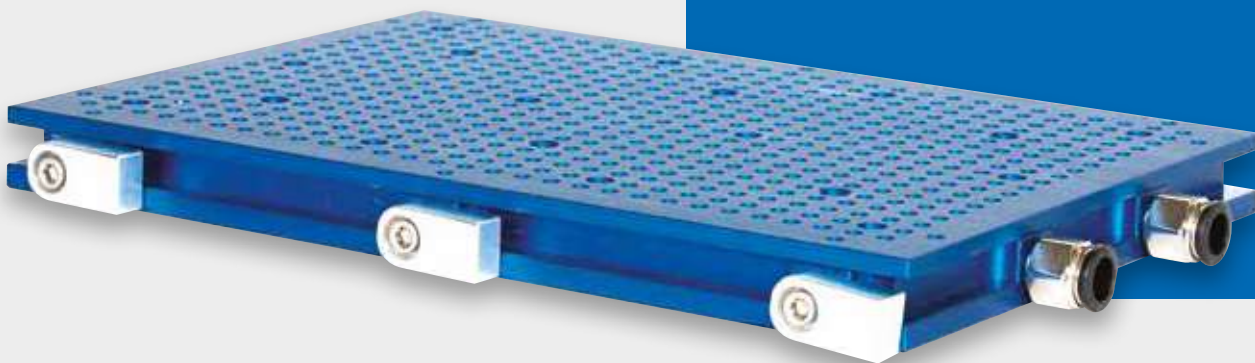
Vacuum plates are a flexible alternative to traditional clamping systems, for those processes that require a type of vacuum clamping. They are made entirely of aluminium and allow a simple repositioning of the workpieces. They do not require any type of preparation and allow you to clamp one or more pieces anywhere on the plate.

Included:

1 On/Off device
1 perforated rubber mat
1 smooth rubber mat
1 set of connecting tubes
2 sliding stops



- This versatile, practical product can clamp all types of materials, including non-ferrous materials
- Thin and irregular workpieces can be clamped
- No worktop preparation necessary = time saving
- Separately manageable work areas allow you to machine several workpieces simultaneously and for different lengths of time



CODE	HT	Vacuum areas	External dimension mm	Clamping dimension mm	Hole positioning mm	Position of fixed stops	Clamping edge mm
C8016300200	1.349,00	2	316 x 216 x 26	300 x 200	10 x 10	6 holes M6	8
C8016400300	2.459,00	4	416 x 316 x 26	400 x 300	10 x 10	12 holes M6	8
C8016600400	2.898,00	6	616 x 416 x 26	600 x 400	10 x 10	24 holes M6	8



VACUUM PUMP

**FOR OPERATIONS
WITH OR WITHOUT LUBRICANTS**

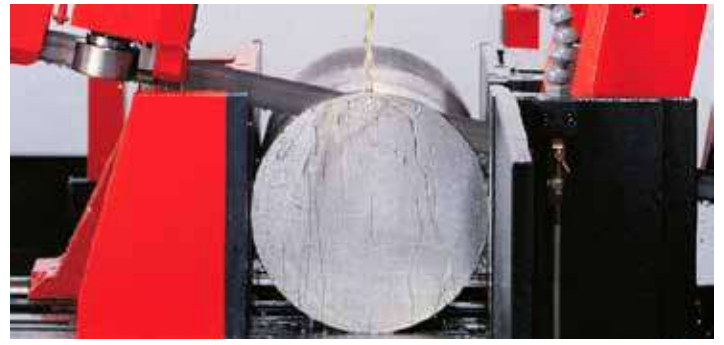
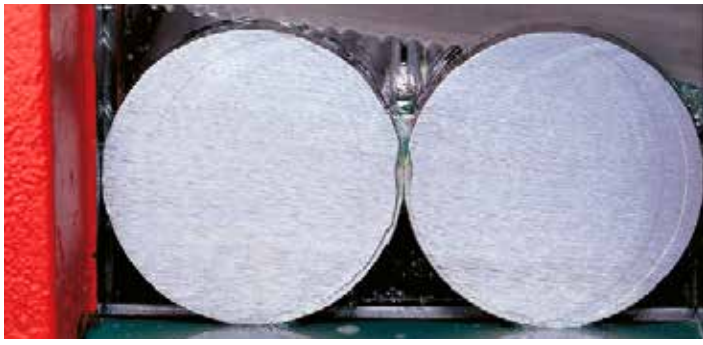
CODE	HT	Capacity L
C801750L	3.810,00	50



VACUUM PUMP

**FOR OPERATIONS
WITHOUT LUBRICANTS**

CODE	HT	Capacity m3/h
C801835M3/H	1.935,00	35
C801850M3/H	2.234,00	50



BIMETAL BLADE M42

SUPER 8

Geometria con rompi-trucioli

Geometria standard

Tooth hardness
67/68 HRC

**Universal blade
with excellent
performance**



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	3/4	HT	4/6	HT	5/7	HT
2450	SU8272450Z34	28,00	SU8272450Z46	28,00	SU8272450Z57	28,00
2750	SU8272750Z34	31,00	SU8272750Z46	31,00	SU8272750Z57	31,00
2765	SU8272765Z34	31,20	SU8272765Z46	31,20	SU8272765Z57	31,20
2825	SU8272825Z34	31,80	SU8272825Z46	31,80	SU8272825Z57	31,80
2950	SU8272950Z34	33,00	SU8272950Z46	33,00	SU8272950Z57	33,00
3010	SU8273010Z34	33,60	SU8273010Z46	33,60	SU8273010Z57	33,60
3120	SU8273120Z34	34,70	SU8273120Z46	34,70	SU8273120Z57	34,70
3150	SU8273150Z34	35,00	SU8273150Z46	35,00	SU8273150Z57	35,00
3180	SU8273180Z34	35,20	SU8273180Z46	35,20	SU8273180Z57	35,20
3270	SU8273270Z34	36,10	SU8273270Z46	36,10	SU8273270Z57	36,10
3320	SU8273320Z34	36,60	SU8273320Z46	36,60	SU8273320Z57	36,60
3660	SU8273660Z34	40,00	SU8273660Z46	40,00	SU8273660Z57	40,00

Length mm	2/3	HT	3/4	HT	4/6	HT
3505	SU8343505Z23	51,00	SU8343505Z34	51,00	SU8343505Z46	51,00
3660	SU8343660Z23	53,00	SU8343660Z34	53,00	SU8343660Z46	53,00
4100	SU8344100Z23	58,00	SU8344100Z34	58,00	SU8344100Z46	58,00
4115	SU8344115Z23	58,00	SU8344115Z34	58,00	SU8344115Z46	58,00
4120	SU8344120Z23	58,00	SU8344120Z34	58,00	SU8344120Z46	58,00
4500	SU8344500Z23	63,00	SU8344500Z34	63,00	SU8344500Z46	63,00
4540	SU8344540Z23	63,00	SU8344540Z34	63,00	SU8344540Z46	63,00
4570	SU8344570Z23	64,00	SU8344570Z34	64,00	SU8344570Z46	64,00
4640	SU8344640Z23	65,00	SU8344640Z34	65,00	SU8344640Z46	65,00
4870	SU8344870Z23	68,00	SU8344870Z34	68,00	SU8344870Z46	68,00
5100	SU8345100Z23	71,00	SU8345100Z34	71,00	SU8345100Z46	71,00
5300	SU8345300Z23	73,00	SU8345300Z34	73,00	SU8345300Z46	73,00



BIMETAL BLADE HIGH SPEED STEEL M71

MAGNUM HLG

Coating
AMADA M71

High-Low
tooth tip
shape

Tooth hardness
69/70 HRC

**Cutting of tough materials
without friction**



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	2/3	HT	3/4	HT	4/6	HT
2450	-	-	HLG272450Z34	37,00	HLG272450Z46	37,00
2750	-	-	HLG272750Z34	41,00	HLG272750Z46	41,00
2765	-	-	HLG272765Z34	41,00	HLG272765Z46	41,00
2825	-	-	HLG272825Z34	41,00	HLG272825Z46	41,00
2950	-	-	HLG272950Z34	44,00	HLG272950Z46	44,00
3010	-	-	HLG273010Z34	44,00	HLG273010Z46	44,00
3120	-	-	HLG273120Z34	46,00	HLG273120Z46	46,00
3150	-	-	HLG273150Z34	46,00	HLG273150Z46	46,00
3180	-	-	HLG273180Z34	46,00	HLG273180Z46	46,00
3270	-	-	HLG273270Z34	48,00	HLG273270Z46	48,00
3320	-	-	HLG273320Z34	49,00	HLG273320Z46	49,00
3660	-	-	HLG273660Z34	53,00	HLG273660Z46	53,00

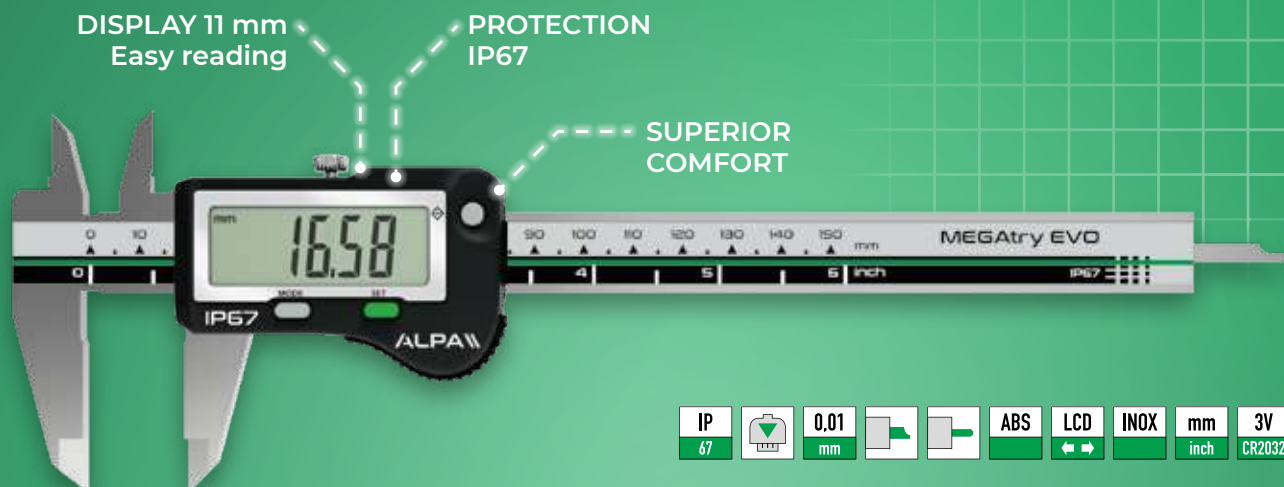
Length mm	2/3	HT	3/4	HT	4/6	HT
3505	HLG343505Z23	62,00	HLG343505Z34	62,00	-	-
3660	HLG343660Z23	65,00	HLG343660Z34	65,00	-	-
4100	HLG344100Z23	72,00	HLG344100Z34	72,00	-	-
4115	HLG344115Z23	72,00	HLG344115Z34	72,00	-	-
4120	HLG344120Z23	72,00	HLG344120Z34	72,00	-	-
4500	HLG344500Z23	78,00	HLG344500Z34	78,00	-	-
4540	HLG344540Z23	79,00	HLG344540Z34	79,00	-	-
4570	HLG344570Z23	79,00	HLG344570Z34	79,00	-	-
4640	HLG344640Z23	80,00	HLG344640Z34	80,00	-	-
4870	HLG344870Z23	84,00	HLG344870Z34	84,00	-	-
5100	HLG345100Z23	87,00	HLG345100Z34	87,00	-	-
5300	HLG345300Z23	86,00	HLG345300Z34	86,00	-	-

METROLOGY



ALPA MEGAty EVO

DIGITAL CALIPERS IP67 WITH PRESET



Digital calipers IP67 with preset.
Accuracy $\pm 0,02$ mm.
Resolution 0,01 mm.
Digital caliper Swiss made IP67 electronics.
High protection against dust and liquids.
Clamping screw, hardened stainless steel frame.

IP 67		0.01 mm			LCD 	INOX 	mm inch	3V CR2032	
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Max error	0-100/20 100-300/30 (DIN 862) mm/ μ m
Repeatability	0.01 mm
Measuring speed	max 2.5 m/s
Display refresh rate	8 ms/s
Measuring system	Sylvac Inductive System (patented)
Power consumption	Working: 50 μ A - Standby mode: 8 μ A
Battery life	12'000 h
Working temperature	from + 5° to + 40°C / from + 41° to + 104°F



CODE	HT	Range mm	Rod
D0010150NDP	129,00	0 ÷ 150	■
D0010150P	145,00	0 ÷ 150	■
D0010150NDT	129,00	0 ÷ 150	●
D0010150T	145,00	0 ÷ 150	●
D0010200	232,00	0 ÷ 200	■
D0010300	282,00	0 ÷ 300	-

ALPA ABSolutus

DIGITAL CALIPERS IP54
WITH ABSOLUTE FUNCTION



CODE	HT	Range mm	Rod
D0009150P	70,00	0 ÷ 150	■
D0009150T	70,00	0 ÷ 150	●
D0009200	97,00	0 ÷ 200	■
D0009300	139,00	0 ÷ 300	■

ALPA

MONOBLOCK VERNIER CALIPERS



CODE	HT	Range mm
D0205100	30,00	0 ÷ 100
D0205150	33,00	0 ÷ 150
D0205200	53,00	0 ÷ 200
D0205300	81,00	0 ÷ 300

PORTABLE ROUGHNESS/SURFACE PROFILER TESTERS WRP

This new roughness/surface profiler tester has a revolutionary approach to roughness measurements. 7 Inches wide 16 million colour touch screen display. 75 roughness parameters following the principle international regulations. Integrated CAD system for profile analysis. Measuring range 3000µm roughness and profilometry probe. Resolution 0.1 nm (0.0001 µm) on 3000 µm. Automatic saving of last 6 measure, manual saving up to 1000 measurements for profilometry and 4000 measurements for roughness (graphics+parameters).



€ 12.684,00

D7246RP



INDUCTIVE AND 90° ROTATABLE TOUCH PROBE

STANDARD EQUIPMENT

- Probe for roughness with diamond cone angle 90 ° radius 2 µm
- Probe for profile with a chisel angle 11°
- Profile software
- Calibration specimen for the roughness Ra = 2.97 µm
- Charger

- Pick-up: interchangeable inductive (only carbon tips)
- Languages: Italian, French, English, German, Spanish, Portuguese, Japanese, Chinese, Korean
- Memory: Up to 4000 roughness measurements and 1000 profilometry measurement

Measurement range	Z=3000 µm for roughness Z=3000 µm for profile tester
Resolution	0,1 nm (0,0001 µm) on ± 1500 µm
Cut-off lenght	0,08 - 0,25 - 0,8 - 2,5 - 8 mm
Cut-off number	from 1 to 20 cut-off (within 60mm)
Traverse lenght	X=60 mm
Interface	graphic 7" touch screen display
75 roughness parameters	ISO Ra, Rq, Rt, Rz, Rp, Rv, Rf, Rsk, Rku, RSm, RΔq, RΔa, RSc, Rmr, RPe, RLo, Rlr, Rzjs, RHSC, Pa, Pq, Pg, Pv, Pc, Psk, Pku, PSm, PΔq, PSc, PPc, PLo, Plr, PHSC, Wa, Wq, Wt, Wz, Wp, Wv, Wc, Wsk, Wku, WSm, WΔq, WSc, WPc, WLo, Wlr, WHSC, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, W, Wx, Rke, Rpk, Rvk, Mr1e, Mr2e, A1e, A2e, ISO 12085: Pt, R, AR, Rx, Wte, Aw, DIN 4768: Rmax, VDA2007: WDSm, WDC, WDI

DETERGENT FOR LAPPED SURFACES

Special liquid detergent for lapped surfaces.



CLEANING
Gentle, water-based
High performance



CODE	HT	Package	Quantity L
D3252500	14,00	Jar	0,5
D32525KG	52,00	Can	5

POLISHING OIL FOR GRANITE

BLACK LIGHT is a product studied and formulated to protect, revive, preserve and polish the floors in diabase granite.



CODE	HT	Package	Quantity ml
D32570500	10,00	Jar	500
D32575000	53,00	Can	5000

ALPA MEGAtower

HEIGHT GAUGES

Resolution 0,001mm
Measuring force N 0,75 ÷ 1,5
Repeatability $\mu\text{m } 2 (\text{Ø:4})$

+ IP67

**ROBUST
PRECISE
RELIABLE**

Insert with
ruby ball
Ø 4mm

AIR CUSHION
easy displacement on measuring table

CODE	HT	Measuring range with extension mm
D4200400	4.989,00	508
D4200700	5.379,00	812

CODE	HT	Range mm
D4100400	3.590,00	400

ALPA

BLACK GRANITE INSPECTION PLATES WITH STAND

DIN 876/0 compliant flatness and accuracy. Non-magnetic and electrically insulated black granite allows a higher accuracy on surface finishing and internal stress absence.

Painted rectangular section structure made from stainless steel, designed for both cast iron and granite surfaces, adjustable swing brake leveling foot/tips system.

CODE	HT	Dimension mm	Weight kg
D3205630	595,00	630 x 400 x 80	92
D32051000	1.175,00	1000 x 630 x 140	315



ALPA

Measuring instruments



INOX



Hardened steel head, heat-insulated handle, dial gauge attachment with $\varnothing 8$ mm. Supplied without dial gauge.

Extremely robust and reliable, ideal for heavy-duty workshop and testing applications, with special attention given to the rod movement transmission. Carbide mobile key, dial gauge attachment $\varnothing 8$ mm. Supplied without dial gauge.

BORE GAUGES WITH STEEL CONTACTS

CODE	HT	Range mm	Depth mm	Contacts
D22251535	280,00	15 + 35	175	Steel
D222530100	301,00	30 + 100	250	Steel
D222550160	326,00	50 + 160	250	Steel
D2225100300	526,00	100 + 300	350	Steel
D2225100500	741,00	100 + 500	650	Steel
D2225100500S	643,00	100 + 500	350	Steel

BORE GAUGES WITH CARBIDE CONTACTS

CODE	HT	Range mm	Depth mm	Contacts
D22261535	344,00	15 + 35	175	HM
D222630100	368,00	30 + 100	250	HM
D222650160	389,00	50 + 160	250	HM
D2226100300	630,00	100 + 300	350	HM
D2226100500	865,00	100 + 500	650	HM
D2226100500S	747,00	100 + 500	350	HM

ALPA

MEASURING STANDS WITH GRANITE TABLE

Flatness and precision in accordance with DIN 876/00. Solid construction with high stability, hardened steel ground column and finely lapped granite top, dial gauge holder $\varnothing 8$ mm.

CODE	HT	Column $\varnothing$ mm	Column h mm	Base mm	Arm mm
D253540	385,00	30	300	200 x 300	Useful 180 - $\varnothing 25$ with micrometric screw



DIAL INDICATORS Ø 40

Travel 5 mm.
Accuracy according to UNI 4180.
Stainless Steel rod and shaft,
Ø 8 mm cylindrical stem.



CODE	HT	Excursion mm	Resolution mm
D23525	46,00	5	0,01

DIAL INDICATORS Ø 58

Shock-proof mechanism (only for D235110),
accuracy according to UNI4180,
stainless steel rod and shaft,
Ø 8mm cylindrical mount.



CODE	HT	Excursion mm	Resolution mm
D235110	36,00	10	0,01
D235125	74,00	25	0,01
D235130	81,00	30	0,01

PRECISION LEVER TEST INDICATORS

Rotable bezel for zero setting. High precision
movement mounted on 6 ruby bearings. Carbide
ball stylus Ø 2 mm, adjustable within 270° and
interchangeable mounted on micro ball bearings.
1 dove tail 8mm Ø.



Resolution 0,01

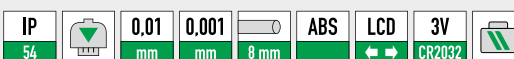
CODE	HT	Excursion mm	Diameter mm	Lever L mm
D2290052836	158,00	0,5	27,4	36
D2290053736	168,00	0,5	37	36
D2290082812	112,00	0,8	27,4	12
D2290083712	128,00	0,8	37	12

MULTIFUNCTION DIGITAL INDICATORS

Robust frame,
water and coolant resistant.
New technology with
configurable menus.
wide selection of features
(min/max, delta, tol, factor,
preset, auto off, etc.).

Automatic wake-up
and sleeping mode,
Absolute system.

Wide choice of options:
Min/Max/Delta, Factor, Preset,
Auto Off, etc...



CODE	HT	Range mm	Resolution mm
D23311250001	475,00	0 + 12,5	0,001
D2331125001	373,00	0 + 12,5	0,01
D2331250001	513,00	0 + 25	0,001
D233125001	438,00	0 + 25	0,01
D2331500001	764,00	0 + 50	0,001
D233150001	708,00	0 + 50	0,01

LUBRICANTS



BORON AND FORMALDEHYDE RELEASER-FREE MINERAL FLUIDS



- Excellent compatibility with water hardness from 5 to 50 °f
- Excellent cleaning power of the machine tool and workpieces
- Excellent lubrication even in the most demanding situations
- Excellent anti-corrosive action
- Excellent cleaning of work areas
- Long emulsion life and excellent resistance to bacterial proliferation
- Excellent resistance to foam
- Appearance concentrated Amber
- Appearance emulsion Milky



UNITEC 2K STRONG
Hard waters and high pressures

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

CODE	L22	HT	L	Refractometric factor	Density DIN 52757 Kg/L	pH (5%) DIN 51369	Storage temperature °C
H001120	499,00	159,00	20	1,1	0,975	9,35	5 - 40
H0011200	4.730,00	1.384,00	200	1,1	0,975	9,35	5 - 40

SLIDEWAY OILS

CODE	L22	HT	L	Viscosity at 40°C ASTM D445 cSt	Viscosity index	Density DIN 52757 Kg/L	Flash point ASTM D92 °C	Pour point °C
H201532B1	463,00	130,00	20	32	100	0,870	>220	-20
H201568T	42,20	34,00	5	68	101	0,880	>220	-21
H201568B1	448,00	118,00	20	68	101	0,880	>220	-21
H201568F	4.340,00	1.072,00	200	68	101	0,880	>220	-21
H2015220B1	466,00	132,00	20	220	101	0,895	>230	-10
H2015220F	4.543,00	1.210,00	200	220	101	0,895	>230	-10



VOLUMETRIC MIXER

ADVANTAGES:

- Easy to use
- Reduced costs
- Product tested before sale
- Rapid topping up
- Top-up precision

CODE	L22	HT	Concentration	Flow L/h	Water pressure Bar	Model
H361810	4.049,00	870,00	1 - 10%	1600	from 0,7 to 8	Base
H361812	4.469,00	1.290,00	1 - 10%	1600	from 0,7 to 8	Complete



LTEC Flube minimalcut steel 46

SYNTHETIC CUTTING FLUIDS

ADVANTAGES:

- Suitable for machining of steels and non-ferrous alloys
- Suitable for plastic cutting and deformation processes
- Suitable for minimal lubrication



Appearance	Golden yellow
Viscosity ASTM D445 at 40°C cSt	36
Density DIN 52757 kg/L	0,925
Flash point ASTM D92 °C	>250
Storage temperature °C	from 10 to 40

CODE	L22	HT	L	Package
H142005	58,00	46,00	5	Can
H1420020	479,00	143,00	20	Can
H1420200	4.734,00	1.387,00	200	Drum

LTEC Micro

MINIMAL LUBRICATING CONTROL UNIT FOR MACHINES

The micro pneumatic pumps dose the minimum amount of lubricant transported by a flow of compressed air flow to the contact point tool/ workpiece without creating fog or pollution. The lubricant is consumed only during the processing phase.



CODE	L22	HT	Nozzles n°	Tension Voltage
H14521	580,00	499,00	1	24 V-CC
H14522	687,00	599,00	2	24 V-CC

LTEC HI - Thread

TAPPING PASTE

The high adherence of the HI-THREAD paste allows perfect lubrication of the tool in any entry position. The product, which includes powerful EP additives, ensures maximum lubrication even under high stress and difficult-to-machine materials.



€ 15,00
H13260500

Appearance	White
Viscosity at 40°C ASTM D445 cSt	2950
Density DIN 52757 kg/L	1,010
VOC g/L	0
Storage temperature °C	from 10 to 40

OIL MIST COLLECTORS



New superior quality solution to eliminate oil mists, fumes and vapours generated by mechanical processing using emulsions. It has an innovative integrated centrifugal "SELF-CLEANING" system for effective removal of pollutants directly at the source, which significantly increases the service life of the subsequent filters. The post-filters with a high filtering surface can eliminate micro-mists and harmful fumes and guarantee a reduction in emissions by up to 99.98% (according to EN 779 - EN1822 HEPA standards). Their versatility is able to solve all customer needs. The innovative collection systems halve maintenance costs and create a healthier and cleaner working environment in compliance with current industrial health and safety regulations (Italian Legislative Decree 25/02 - Legislative 81/2008). Supply voltage 400 V / 50 Hz three-phase. Complete with Filter Clogging Detection Device. Standard equipment: Clogging column light detector.



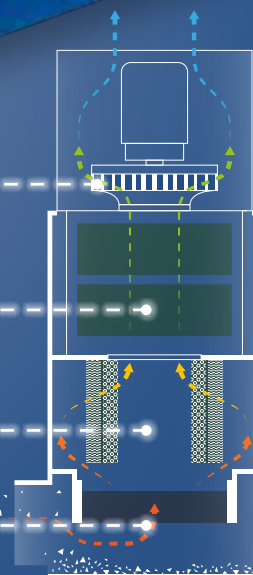
HOW DOES IT WORK

Electric fan

Absolute filter

Cartridge filter with covering

Synthetic pre-filter



CODE	HT	Model	Suction air flow m³/h	Power kW	Inlet Ø mm	Noise level dBA	Static pressure Pa	Filtering surface m²
H54250500	3.000,00	AFM MIST PLUS EMULSION - 500	700	0,55	125	62	820	5,7
H54251000	3.450,00	AFM MIST PLUS EMULSION - 1000	1200	1,1	150	64	1100	8,4
H54252000	4.050,00	AFM MIST PLUS EMULSION - 2000	2100	1,5	200	68	1400	11,9
H54253000	4.500,00	AFM MIST PLUS EMULSION - 3000	3100	2,2	250	72	2000	14

MRO



COMBINATION RATCHET WRENCHES WITH SWIVEL HEAD



CODE		HT	Pieces	Composition
E020607	WX1400/K7	82,00	7	8 - 10 - 12 -13 - 14 - 17 - 19 mm



CODE		HT	Pieces	Composition
E020805	WX1400/S5	71,00	5	8 - 10 - 13 - 17 - 19 mm



15° inclined



Chrome-vanadium steel hardness 42-48 HRC



Working angle of up to 180°



COMBINATION WRENCHES

CODE	HT	Pieces	Composition
E000610	48,00	10	WX1060/S10 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
E000612	87,00	12	WX1060/S12 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
E000621	146,00	21	WX1060/S21 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
E000627	175,00	27	WX1060/S27 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm



LONG HEXAGONAL L KEYS WITH BALL END IN SET



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

CODE	L22	HT	Pieces	Composition
E230809	24,96	14,50	9	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

HEXAGONAL SCREWDRIVERS WITH BALL END



Hexagonal screwdrivers **PREMIUM QUALITY** with ball end, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

CODE	L22	HT	Pieces	Composition
E252205	27,56	16,50	5	2,5x100 - 3x125 - 4x125 - 5x150 - 6x150 mm

SET OF HEXAGONAL WRENCHES WITH T-HANDLES



Hexagonal wrenches **PREMIUM QUALITY** with spherical ends, bi-component, hypoallergenic and anti-slip **ERGOFORM** handles made of **SANTOPRENE®** with high-density polypropylene core. Hexagonal blades in special chrome vanadium steel with satin finish.

CODE	L22	HT	Pieces	Composition
E256306	57,93	34,00	6	2,5 - 3 - 4 - 5 - 6 - 8 mm

SLIDING T-HANDLE HEXAGONAL WRENCHES IN SET



PREMIUM QUALITY Sliding T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques.

CODE	L22	HT	Pieces	Composition
E265207	407,96	64,00	7	2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
E265208	491,44	79,00	8	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
E265210	499,28	120,00	10	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm
E265212	233,20	140,00	12	2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 mm

INSULATED TOOLS VDE 1000 VOLTS IN SET

Set of **PREMIUM QUALITY** pliers and cutting nippers, scissors and screwdrivers insulated up to 1000V according to DIE EN 60900/VDE 0682-201. **ERGOFORM** hypoallergenic, anti-slip, soft and comfortable grip handles, Compliant with RoHS and REACH directives.



Composition

WX3060	Universal pliers VDE 180 mm
WX3210	Half round bent nose pliers VDE 200 mm
WX3630	Cutting nippers Heavy-Duty VDE 180 mm
WX3430	Wire stripper VDE 160 mm
WX4775	Electrician's scissors VDE 155 mm
WX4190	Voltage tester 105-250 Volt 3-70 mm
WX4030	Screwdrivers for slotted screws VDE 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080	Phillips® screwdrivers VDE PH0x60 - PH1x80 - PH2x100 mm
WX4130	Pozidriv® screwdrivers VDE PZ0x60 - PZ1x80 - PZ2x100 mm



€ 114,00

F010516

SCREWDRIVERS PREMIUM QUALITY IN SET



BOX



CODE	HT	Pieces	Composition
E609007	25,00	7	- WX4000 3x75 - 4x100 - 5,5x100 mm - WX4050 PH1x80 - PH2x100 mm - WX4100 PZ1x80 - PZ2x100 mm
E609008	29,00	8	- WX4000 2,5x75 - 3x75 - 4x100 - 5,5x100 - 6,5x125 mm - WX4050 PH0x60 - PH1x80 - PH2x100 mm - WX4100 PZ1x80 - PZ2x100 mm
E609010	35,00	10	- WX4000 3x75 - 4x100 - 5,5x100 - 6,5x125 mm - WX4050 PH1x80 - PH2x100 mm - WX4100 PZ1x80 - PZ2x100 mm
E609015	60,00	15	- WX4000 2,5x75 - 3x75 - 3,5x100 - 4x100 - 5,5x100 - 6,5x125 - 8x175 mm - WX4050 PH0x60 - PH1x80 - PH2x100 - PH3x150 mm - WX4100 PZ0x60 - PZ1x80 - PZ2x100 - PZ3x150 mm

HEXAGONAL NUT DRIVERS WITH HANDLE



Hexagonal extended nut drivers with **PREMIUM QUALITY** handle for hexagonal head screws and nuts. Satin chrome-vanadium steel blade, hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** grip made of **SANTOPRENE®** that guarantees maximum grip for fast and accurate work. Size indication on the handle head. Compliant with RoHS and REACH directives.

CODE	L22	HT	Pieces	Composition
E145208	85,86	52,00	8	5x125 - 5,5x125 - 6x125 - 7x125 - 8x125 - 9x125 - 10x125 - 13x125 mm

WODEX

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 71 TOOLS



€ 179,00
E489671

WODEX

SOCKET WRENCHES 1/2" - SET OF 40 TOOLS



€ 156,00
E492340

WODEX

INSERT BITS AND INSERT HOLDERS INDUSTRIAL SET 31 PIECES



€ 19,00
E752931



NEW

Composition

WX2040	Reversible ratchet 1/4"
WX2200	Sockets 1/4" 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x150 mm
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 3 - 4 - 5,5 - 6,5 mm
WX4400	Insert bits 1/4"x25 Phillips* PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv* PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx* T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX 5 - 6 - 8 - 10 - 12 mm
WX2220	Socket drivers 1/2" Torx* T30 - T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x125 - 1/2"x200 mm
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8" F-1/2" M with hole for extension



NEW

Composition

WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
WX2210	Sockets 1/2" HEX 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
WX2220	Sockets 1/2" Torx* T30 - T40 - T45 - T50 - T55 - T60
WX2252	Extensions Wobble 1/2"x125 - 1/2"x250 mm
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8" F-1/2" M with hole for extension



Composition Pieces

WX4400	1 x PH0-25 - 2 x PH1-25 2 x PH2-25 - 1 x PH3-25 mm
WX4415	1 x PZ1-25 - PZ2-25 - PZ3-25 mm
WX4430	1 x Slotted 3,0x25 - 4,5x25 - 6,5x25 mm
WX4445	1 x HEX 2-25 - 1 x 2,5-25 - 2 x 3-25 2 x 4-25 - 2 x 5-25 - 1 x 6-25 - 1 x 8-25 mm
WX4475	1 x Torx T9-25 - T10-25 - T15-25 - T20-25 T25-25 - T27-25 - T30-25 - T40-25 mm
WX4625	1 x Magnetic bit holder with hexagonal drive 1/4" 60 mm



TORQUE WRENCHES CLICK-ACTION


CODE	L22	HT	Capacity Nm	Coupling	Resolution Nm	L mm	g
E6702025	143,10	86,00	5 - 25	1/4"	0,10	296	410
E6702050	153,70	92,00	10 - 50	3/8"	0,25	333	470
E6702100	170,66	102,00	20 - 100	1/2"	0,50	400	820
E6702200	185,50	111,00	40 - 200	1/2"	1,00	500	1300
E6702300	193,98	116,00	60 - 300	1/2"	1,00	635	1470

Features

- 01 - Ratchet mechanism
- 02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
- 03 - Serial number for traceability
- 04 - Window with scale in N-m
- 05 - Micrometre scale for precise torque
- 06 - NBR anti-slip ergonomic handle
- 07 - Button for locking the torque setting

LED TORCHES

Adjustable light beam as follows: High 150 Lm - Low 60 Lm - Strobe 150 Lm - SOS 150 Lm
Operating time: 60 Lm 8 hours - 150 Lm 2.5 hours
Batteries included.



CODE	L22	HT	Light output Lm	Beam distance m	Dimensions Ø x L mm
N706901	27,50	16,50	60 - 150	50	17,5 x 150

POCKET TAPE MEASURES

Pocket tape measure **TOP-LINE** with ergonomic non-slip case in two-component ABS-TPR resistant to falls from 3 metres and extra-thick steel tape with wear-resistant coating up to 100 hours in salt spray, clip for belt attachment.



CODE	L22	HT	Tape length m	Tape width mm	Dimensions mm
F912305	12,64	7,60	5	19	73 x 71 x 43

BOLT CUTTERS
Features

- Surface hardness of cutting edges 62 HRC
- Cutting force up to 48 HRC - recommended up to 40 HRC
- Simple and precise adjustment of the blades via the eccentric screws
- Lever handles in tubular steel with ergonomic movement



CODE	F23050460	F23050620	F23050780
HT	48,00	60,00	84,00
Length mm	460	620	780
19 HRC Ø max mm	8	9	11
40 HRC Ø max mm	7	8	9
48 HRC Ø max mm	5	7	8

PIN PUNCHES IN SET

STANDARD DIN 6450 - DIN 7255

Set of 6 pin punches with white plastic stand.


Composition

2x150 - 3x150 - 4x150 - 5x150 - 6x150 - 8x150 mm

CODE	L22	HT	Pieces
F452206	35,54	21,00	6

WRK TOOL CABINETS WITH MRO ASSORTMENTS

72 TOOLS

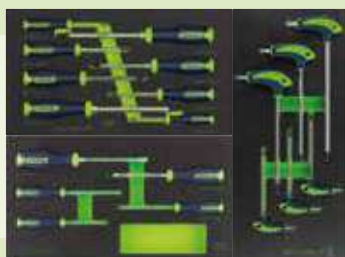


DRAWER 1

WX1060/SE12
Combination wrenches

WX1950/SE8
Hexagonal nut drivers with handle

WX9500/SE2
Hammer and mallet



DRAWER 2

WX4200/SE5
Slotted screwdrivers

WX4205/SE8
Screwdrivers PH/PZ

WX2750/SE6
Hexagonal wrenches with t-handles



EXTRA

WX4590/31
Set of inserts 1/4"



125 TOOLS

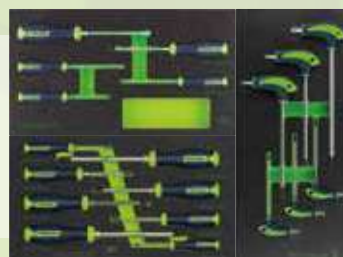


DRAWER 1

WX1060/SE12
Combination wrenches

WX2290/SE40
Socket wrenches 1/2"

WX9500/SE2
Hammer and mallet



DRAWER 2

WX4200/SE5
Slotted screwdrivers

WX4205/SE8
Screwdrivers PH/PZ

WX2750/SE6
Hexagonal wrenches with t-handles



DRAWER 3

WX3750/SE4
Pliers and cutting nippers

WX7620/SE5
Files for mechanics

WX9515/SE12
Set of assorted tools



EXTRA

WX4590/31
Set of inserts 1/4"



TOOL CABINETS WITH MRO ASSORTMENTS

NEW


GRAND PRIX 5
+ 72 TOOLS

€ 575,00

1326497

GRAND PRIX 5
+ 125 TOOLS

€ 800,00

1326591

NEW

GRAND PRIX 7
+ 72 TOOLS

€ 600,00

1326585

GRAND PRIX 7
+ 125 TOOLS

€ 830,00

1326519



WODEX TOOL CABINETS WITH MRO ASSORTMENTS

176 TOOLS



DRAWER 1

WX1060/SE16
Combination wrenches

WX9503/SE2
Hammers and mallets non-rebound



DRAWER 2

WX2700/SE10
Hexagonal T-wrenches sliding rod

WX9512/SE12
Saws and bolt cutters



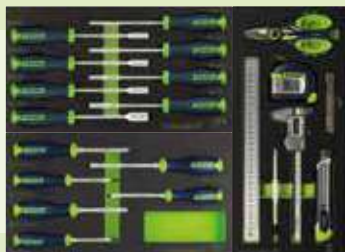
DRAWER 3

WX2290/SE40
Socket wrenches 1/2"

WX9520/SE2
Exagonal keys and stubby

WX4950/SE6
Set of pin punches

WX3750/SE4
Pliers and nippers



DRAWER 4

WX1950/SE8
Hexagonal nut drivers with handle

WX4210/SE6
Set of slotted and PH/PZ screwdrivers

WX9690/SE7
Set of measuring and cutting tools



EXTRA

WX6630
LED torches



EXTRA

WX4590/31
Set of inserts 1/4"



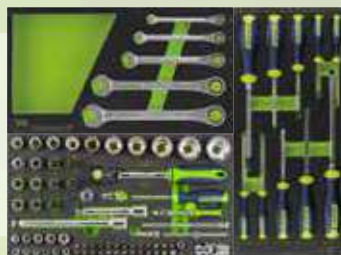
188 TOOLS



DRAWER 1

WX1060/SE16
Combination wrenches

WX9500/SE2
Hammer and mallet

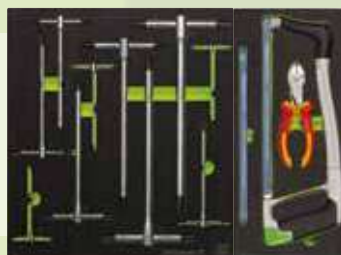


DRAWER 2

WX1350/SE5
Set of combination wrenches reversible ratchet

WX2095/SE71
Socket wrenches 1/4" and 1/2"

WX4230/SE10
Set of slotted and phillips screwdrivers



DRAWER 3

WX2717/SE10
Set of hex. male T-handle wrenches with fixed shaft

WX9512/SE12
Saws and bolt cutters



DRAWER 4

WX3750/SE4
Pliers and nippers

WX7620/SE5
Set of files for mechanics

WX9690/SE7
Set of measuring and cutting tools



DRAWER 5

WX3400/SE3
Set of straight nose pliers for internal circlips

WX3410/SE3
Set of straight nose pliers for external circlips

WX9510/SE3
Scissor, cutter e torch

WX4950/SE6
Set of pin punches



EXTRA

WX4590/31
Set of inserts 1/4"



TOOL CABINETS WITH MRO ASSORTMENTS



WX9421/B6
+ 176 TOOLS

€ 1.700 ,00

1326569

WX9421/B6
+ 188 TOOLS

€ 2.000 ,00

1326580

WX9416/B6
+ 176 TOOLS

€ 1.750 ,00

1326570

WX9416/B6
+ 188 TOOLS

€ 2.100 ,00

1326582



BENCH VICES - CAST IRON



Bench vices **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.

CODE	L22	HT	Width mm	Opening mm	kg
N6810080	434,44	85,00	80	110	6
N6810100	467,62	122,00	100	140	11
N6810120	225,78	147,00	120	185	18
N6810150	338,14	220,00	150	220	25

BENCH VICES - STEEL



Bench vices **PREMIUM QUALITY** in high quality forged steel, front opening, non-removable induction hardened and ground jaws. All sliding parts are hardened and adjustable. Fixing more than 2 points. Grey painted with hammered finish.

Optional accessories:
Removable pipe wrench jaws.

CODE	L22	HT	Width mm	Opening mm	kg
N6860100	474,99	114,00	100	125	7
N6860125	299,66	136,00	125	150	11
N6860150	288,32	187,00	150	200	17
N6860175	449,22	267,00	175	220	26

VICES FOR COLUMN DRILLS



Vices for column drills **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground steel jaws. The prismatic jaws allow flat and round pieces to be clamped, while the sliding guides for the mobile jaw act as a support base for the precise closure of the pieces. Fixing more than 2 points. Grey painted with hammered finish.

CODE	L22	HT	Width mm	Opening mm	Jaw height mm	kg
N6910060	494,94	68,00	60	70	25	2,5
N6910080	425,08	81,00	80	80	25	4
N6910100	243,06	139,00	100	110	30	9
N6910120	278,78	181,00	120	150	40	16
N6910150	372,06	242,00	150	180	45	24

HSSE HOLE CUTTERS FOR STEEL AND STAINLESS STEEL

CODE	L22	HT	Ø mm	d mm	D mm	h mm
N527812	22,58	14,68	12	5	7	21
N527813	28,62	18,60	13	5	7	21
N527814	29,79	19,36	14	5	8	21
N527815	30,53	19,85	15	5	8	21
N527816	31,27	20,33	16	5	8	21
N527817	31,69	20,60	17	5	8	21
N527818	32,44	21,09	18	5	8	22
N527819	34,03	22,12	19	5	8	22
N527820	35,54	23,08	20	5	8	23
N527821	37,31	24,25	21	5	8	23
N527822	39,54	25,70	22	5	8	23
N527823	40,70	26,46	23	6	9	23
N527824	42,19	27,42	24	6	9	25
N527825	43,78	28,46	25	6	9	25
N527826	45,47	29,56	26	6	9	25
N527827	47,49	30,87	27	6	9	25
N527828	49,08	31,90	28	6	9	25
N527829	50,67	32,94	29	6	9	25
N527830	52,26	33,97	30	6	9	25
N527831	53,74	34,93	31	6	9	27
N527832	55,44	36,04	32	6	9	27
N527833	57,13	37,13	33	6	9	27
N527834	58,94	38,31	34	6	9	27
N527835	60,95	39,62	35	6	9	27
N527836	62,22	40,00	36	6	10	27
N527837	64,02	42,00	37	6	10	27
N527838	66,25	43,00	38	6	10	27
N527839	70,38	46,00	39	6	10	27
N527840	71,34	46,00	40	6	10	27
N527841	72,82	47,00	41	6	10	27
N527842	74,41	48,00	42	6	10	27
N527843	76,14	49,00	43	6	10	27
N527844	77,38	50,00	44	6	10	27
N527845	79,50	52,00	45	6	10	27
N527846	80,88	53,00	46	6	10	27
N527847	82,89	54,00	47	6	10	27
N527848	84,38	55,00	48	6	10	27
N527849	85,65	56,00	49	6	10	27
N527850	87,45	57,00	50	8	12	27
N527851	122,22	79,00	51	8	12	27
N527852	130,06	84,00	52	8	12	27
N527853	126,88	82,00	53	8	12	27
N527854	129,32	84,00	54	8	12	27
N527855	137,69	90,00	55	8	12	28
N527856	134,73	88,00	56	8	12	28


**SPECIAL GROUND
SHARPENING**

**IMMEDIATE
CHIP EXPULSION**

**INCREASED
CUTTING
PERFORMANCE**

Application:

For making through holes in steel, stainless steel, light alloys and hard plastic with depth of up to 10 mm.
It is recommended to use cutting oil.



FLAP GRINDING DISCS



Z+

RAVEN EVO

Flap disc with reinforced flat nylon backing for heavy-duty applications. Bi-lamellar execution with zirconium cooling additive. Overlapping flaps of above average width. It is recommended to use appropriately powered grinders.

P	M	K	N	S	H
●	●	○	○	-	-

CODE	HT	Ø mm	Grit	
G1224115040	2,09	115 x 22,2	40	15
G1224115060	2,09	115 x 22,2	60	15
G1224125040	2,31	125 x 22,2	40	15
G1224125060	2,31	125 x 22,2	60	15



SOFT FLAP DISCS



Z

FOX

Zirconium flap grinding discs with fiberglass backing. The flaps' angular positioning guarantee superior flexibility, comparable to that of a fibre disc, yet providing a twenty times longer service life. Especially recommended for angles, shaped edges and corrugated surfaces machining Cold cutting. Fit for all materials, for average power grinders.

P	M	K	N	S	H
●	●	●	●	-	-
CODE	HT	Ø mm	Grit	👁	
G1410115040	2,86	115 x 22,2	40	20	
G1410115060	2,86	115 x 22,2	60	20	
G1410115080	2,86	115 x 22,2	80	20	



SURFACE TREATMENT DISCS



POLISH TNT

Non-woven disc impregnated with abrasive silicon carbide granules on a fiberglass backing plate. Close mesh allows the removal of minor imperfections left by the use of flap discs. Recommended when working on stainless steel. Use on angle grinders at a speed of 8300 rpm (50 m/s).

P	M	K	N	S	H
○	●	○	○	○	-
CODE	HT	Ø mm	Grit		
G1421115	7.72	115 x 22.2	Soft	10	



SURFACE TREATMENT DISCS



CLEAN TNT

Non-woven disc impregnated with abrasive silicon carbide granules on a fiberglass backing plate. Open mesh for improved removal of material without clogging. May be cleaned using compressed air. Low noise. No contaminants released. Can be used on all materials.

P	M	K	N	S	H
●	●	●	●	●	●
CODE	HT	Ø mm	Grit	👁	
G1431115	3.81	115 x 22.2	Coarse	10	

STARCKE

ZIRCONIUM VELCRO COATED ABRASIVE DISCS

NEW

Z



P	M	K	N	S	H
●	●	○	-	-	-

CODE	HT	Ø mm	Grit	
G2310115040	0,65	115	40	50
G2310115060	0,64	115	60	50
G2310115080	0,58	115	80	50
G2310115120	0,53	115	120	50
G2310125040	0,79	125	40	50
G2310125060	0,67	125	60	50

CODE	HT	Ø mm	Grit	
G2310125080	0,65	125	80	50
G2310125120	0,58	125	120	50
G2310150040	1,01	150	40	50
G2310150060	0,86	150	60	50
G2310150080	0,80	150	80	50
G2310150120	0,77	150	120	50

VSM

CERAMIC VELCRO-COATED CLOTH DISCS

NEW

C+



P	M	K	N	S	H
○	●	●	●	-	●

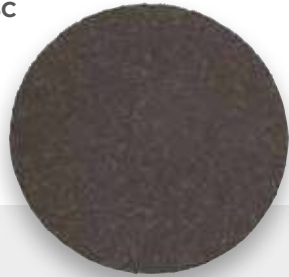
CODE	HT	Ø mm	Grit	
G2315115060	0,80	115	60	50
G2315115080	0,73	115	80	50
G2315115120	0,70	115	120	50
G2315125060	0,94	125	60	50
G2315125080	0,85	125	80	50

CODE	HT	Ø mm	Grit	
G2315125120	0,81	125	120	50
G2315150060	1,33	150	60	50
G2315150080	1,19	150	80	50
G2315150120	1,12	150	120	50

VSM

AGGLOMERATED VELCRO DISC

Thanks to the particular shape of the abrasive granules offers an extraordinary performance in terms of durability and constant finish. Exceptional in finishing operations on stainless steel where it eliminates many steps.



P	M	K	N	S	H
●	●	-	-	-	-

A

CODE	HT	Ø mm	Grit	
G23201150120	0,86	115	120	50
G23201150240	0,86	115	240	50
G23201150320	0,86	115	320	50
G23201150600	0,86	115	600	50
G23201151200	0,86	115	1200	50

CODE	HT	Ø mm	Grit	
G23201500120	1,40	150	120	50
G23201500240	1,40	150	240	50
G23201500320	1,40	150	320	50
G23201500600	1,40	150	600	50
G23201501200	1,40	150	1200	50

VSM

ALUMINUM OXIDE QUICK CHANGE DISCS

A



P	M	K	N	S	H
●	○	○	●	●	-

Coupling: Male thread type R.

CODE	HT	Ø mm	Grit	
G241050R036	0,64	50	36	50
G241050R060	0,57	50	60	50
G241050R080	0,56	50	80	50
G241050R120	0,55	50	120	50

CODE	HT	Ø mm	Grit	
G241075R036	0,77	75	36	50
G241075R060	0,71	75	60	50
G241075R080	0,70	75	80	50
G241075R120	0,68	75	120	50

VSM

CERAMIC QUICK CHANGE DISCS

C+



Coupling: Male thread type R.

P	M	K	N	S	H
●	●	○	○	-	-

CODE	HT	Ø mm	Grit	
G242050R036	0,91	50	36	50
G242050R060	0,82	50	60	50
G242050R080	0,80	50	80	50
G242050R120	0,77	50	120	50
G242075R036	1,12	75	36	50
G242075R060	1,15	75	60	50
G242075R080	1,12	75	80	50
G242075R120	1,06	75	120	50

CLOTH QUICK CHANGE DISCS



Coupling: Male thread type R.

P	M	K	N	S	H
●	●	●	●	○	-

CODE	HT	Ø mm	Grit	
G2430R50M	1,25	50	MEDIUM	25
G2430R50VF	1,25	50	VERY FINE	25
G2430R75M	1,87	75	MEDIUM	25
G2430R75VF	1,87	75	VERY FINE	25

BACKING PADS FOR QUICK CHANGE DISCS TYPE R



CODE	HT	Ø mm	Coupling type	Shank
G2440R25	5,58	25	R	6
G2440R50	7,69	50	R	6
G2440R75	8,50	75	R	6

NEW

PNEUMATIC FILING MACHINES



FRV-60B

Pneumatic filing machine with low-vibration level and reduced tool recoil effect. Extremely light and handy for precision and finishing work. The round-shank tool gripper makes it ideal for working with needle files. Use with clean, filtered air and minimal lubrication will greatly increase the service life of the machine.

CODE		G9310060
HT		461,00
Shank clamp Ø	mm	from 3 to 4
Fixed stroke	mm	4
Power	HP/Watt	0,04 / 30
Operating pressure	Bar	6 - 6,5
Noise level	dB	71
Max. dimensions	Ø x L	30 x 200
Weight	kg	0,3

NEW

PNEUMATIC FILING MACHINES



FRV-110

Pneumatic filing machine with low-vibration level and reduced tool recoil effect. Sufficiently powered for heavy removal jobs on worktops and removal of weld residue. Round-shank tool gripper. Robust and reliable; works very well even with large files. Use with clean, filtered air and minimal lubrication will greatly increase the service life of the machine.

CODE		G9330110
HT		536,00
Shank clamp Ø	mm	from 4 to 6
Fixed stroke	mm	8
Power	HP/Watt	0,1 / 75
Operating pressure	Bar	6 - 6,5
Noise level	dB	77
Max. dimensions	Ø x L	34 x 200
Weight	kg	1,05

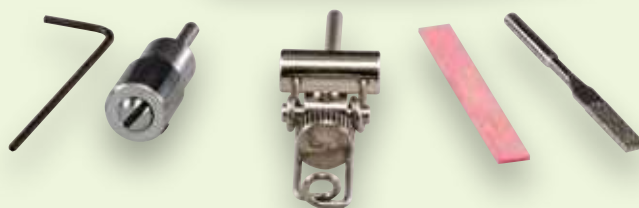


NEW

MINI-LUSTER FILING MACHINES

Filing attachment for use in combination with the standard ENK-410S motor of the Emax Evolution system. Compact, lightweight and low-vibration level. Supplied with holder for diamond files and abrasive stones of maximum dimensions 1x6.

CODE		G9435000
HT		550,00
Collet for Ø max	mm	3,2
Fixed stroke	mm	0,8
Oscillation frequency	n°/min	0 ~ 6.380
Weight	g	130



DIAMOND FILES FOR PNEUMATIC FILING MACHINES

NEW

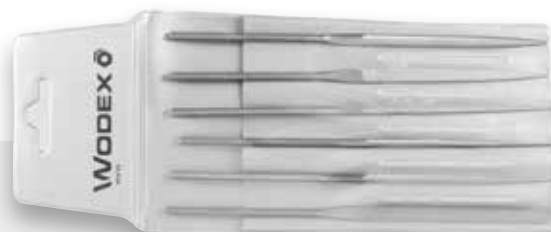
Small diamond files for working with pneumatic filing machines. The flat files are diamond-coated on 4 sides. D151 grit for universal use. Suitable for work on hard metals, hardened steels, ceramics, glass and carbon fibres.



CODE	G8750P431	G8750P452	G8750R2	G8750R4
HT	12,11	12,11	8,70	8,70
Shape	■	■	●	●
Section	mm 3 x 1	mm 5 x 2	mm 2	mm 4
L tot / Length	mm 50 / 15	mm 50 / 15	mm 50 / 15	mm 50 / 15
Shank Ø	mm 3	mm 3	mm 3	mm 3

WODEX

NEEDLE FILES IN SET



CODE	G8568160T0	G8568160T1	G8568160T2
L22	62,30	62,30	62,30
HT	40,00	40,00	40,00
Length	mm 160	mm 160	mm 160
Cut	0	1	2



HAMMER DRILL and IMPACT DRIVER KIT

DOTAZIONE KIT

2 x 12V x 6Ah batteries
1 battery charger
1 heavy duty carrying case



€ 439,00

N408212V + N4080124

M12 FID2 - 0 M12 FUEL™ 1/4" HEX DRIVE COMPACT IMPACT WRENCH

No-load speed rpm	0 - 1,700/ 0 - 2,900/ 0 - 3,600/ 0 - 3,600
Impact rate bpm	0 - 4,000
Hitch	1/4" Hex
Max. torque Nm	170
Weight with battery pack EPTA kg	1.1 (M12 B6)

- Compact size, only 127 mm
- Three LEDs on the front part
- DRIVE CONTROL function that allows the user to select three different speed and torque settings, as well as self-tapping mode
- POWERSTATE™ brushless motor, REDLITHIUM™ batteries, intelligent REDLINK PLUS™ electronics
- Compatible with all MILWAUKEE® M12™ batteries

M12 FPD2 - 602X M12 FUEL™ COMPACT IMPACT DRILL DRIVER

No-load speed rpm	0 - 450/ 0 - 1,550
Keyless chuck mm	13
Chap. Max. drilling capacity wood / steel / masonry mm	35/ 13/ 13
Impact rate bpm	0 - 22,500
Max. torque Nm	4 5

- Compact size, only 152 mm
- Mechanical clutch with 13 settings, selector switch for screwdriving without/with impact
- Belt clip and LED light
- POWERSTATE™ brushless motor, REDLITHIUM™ batteries, intelligent REDLINK PLUS™ electronics
- Compatible with all MILWAUKEE® M12™ batteries

SELF-TILTING SCRAP HOLDERS

Fork mounted structure with fork lift; simple and safe automatic emptying of the container through the tilting lever without leaving the forklift truck; watertight collection tank with sheet metal filter for the separation of liquids and solids and ball drain cock. Compliant with European standards, blue RAL 5004.

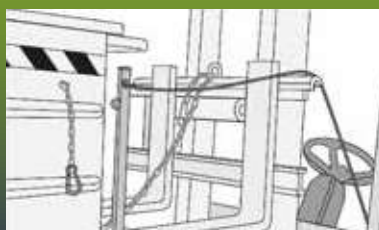


CODE	L22	HT	Model	Capacity kg	Weight Kg	A x B x C mm	D mm	E mm	Inclination °
P4511280	844,00	730,00	lt - 280	600	80	970 x 750 x 890	700	790	25,1
P4511300	934,00	820,00	lt - 300	600	102	1350 x 820 x 650	490	520	63,5
P4511500	1488,00	950,00	lt - 500	1000	130	1350 x 920 x 910	700	740	57,6
P4511750	1470,00	1.000,00	lt - 750	1350	152	1350 x 1070 x 1040	825	800	49,6
P45111000	4232,00	1.100,00	lt - 1000	1700	181	1550 x 1070 x 1210	970	920	54

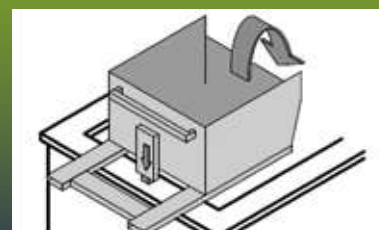
CONTROLLED TIPPING



Safety chain



Safety system



Automatic tipping-release mechanism

BIG BAG

Big Bag standard UN 13H3Y approved with four lifting straps. In polypropylene.

CODE	P701401	P701402	P701402
L22	44,00	44,00	43,50
HT	7,00	10,50	10,00
Dimension cm	90 x 90 x 120	90 x 90 x 120	90 x 90 x 120
Volume m³	0,97	0,97	0,97
Load capacity kg	1000	1500	1000
Form	Closed bottom	With drain valve	Closed bottom
Type approved	-	-	13H3Y



LIQUID VACUUM CLEANERS

Professional liquid vacuum cleaners, practical, versatile e professionals
Twin engine
Overhead door frame (25 lt model in polypropylene)
Washable polyester filter
Strong and practical closing hook system
Anti-shock head
Anti-splash switch
4 Sliding wheels
Quick hose

Standard accessories included



**IMMEDIATE AVAILABILITY
SPARE PARTS AND SUPPORT
MADE IN ITALY**

CODE	L22	HT	Tank Lt	Electric motors N°	Tension V	Depression mm/H2O	Air capacity m³/h	Dimensions cm	Weight Kg
N590001	224,00	191,00	25	1	230	2200	180	34 x 34 x 64h	6
N591001	268,00	245,00	35	1	230	2200	180	40 x 40 x 77h	10
N592001	338,00	281,00	50	1	230	2400	220	47 x 47 x 93h	20
N593001	623,00	530,00	70	2	230	2200	360	60 x 59 x 105h	22



CLEAN GO WELDING FUMES ASPIRATORS

The CLEANGO welding fumes aspirators are represented for their small size, easy use and operating efficiency, the most economical solution to aspiration problems, filtration and deodorization of welding fumes. These welding fumes aspirators are distinguished by their high silent operation established due to pivoting wheels with brakes. The maintenance of the machine is restricted to the installation of the cellulose filter cartridge, which only requires short time and unskilled personnel.



Standard equipment:

- Self-supporting arm evolution no smoke Ø 150 mm length 3 m
- Cellulose filter of high performance IFA/BGIA M-CEL Code 1110670
- 1 Manetermic switch ON/OFF
- 1 Hour counting device

Optional:

- Cartridge with 2,5 kg of active carbon Code 1161611

€ 1.741,00
N6055ASP

Power supply	V - Hz	400 - 50
Power	kW	1,1
Brake capacity	m³/h	1400
Medium filter	IFA/BGIA	M CEL
Filter efficiency		99%
Noise level	dB(A)	72
Dimension	mm	* 756 x 702 x 916H
Weight	Kg	89

* Max dimension of the aspirator without the self supporting arm No Smoke

LTEC

adhesives

INSTANT CYANOACRYLATE ADHESIVES

NEW

Universal instant adhesive that acts very well on most materials, including acidic surfaces such as wood, leather, cardboard, paper, etc. Suitable for general use. Rapid curing with high adhesive strength.



CU1

- Bonding time: 1 - 3 sec
- Working temperature: -55 to +95 °C
- Colour: transparent
- Certifications: NSF

CODE	J0013050
L23	24,39
HT	14,77
Package	bottle
Quantity g	50

INSTANT CYANOACRYLATE ADHESIVES

NEW

High-performance instant adhesive for rubbers (especially EPDM) and plastics. Excellent resistance to ageing. The product's low viscosity means a very thin adhesive film can be obtained. When used with non-adhesive plastics, a primer should first be applied.



CU6

- Bonding time: 1 - 3 sec
- Working temperature: -55 to +95 °C
- Colour: transparent
- Certifications: NSF

CODE	J0018050
L23	22,35
HT	15,50
Package	bottle
Quantity g	50

MEDIUM MECHANICAL STRENGTH THREADLOCKER

NEW

Medium strength, medium viscosity, thixotropic threadlocker for the braking and sealing of threaded fasteners that can be disassembled with standard hand tools. Suitable for all metals.



FFM4

- Max. thread Ø: M20
- Working temperature: from -50 to +150 °C
- Colour: blue
- Certifications: NSF

CODE	J0120050	J0120250
L23	29,40	69,45
HT	14,15	48,16
Package	bottle	bottle
Quantity g	50	250

HIGH MECHANICAL STRENGTH THREADLOCKER

NEW

High-strength, medium-viscosity threadlocker for the permanent braking and sealing of threaded fasteners. Suitable for all metals.



FFF7

- Max. thread Ø: M20
- Working temperature: from -50 to +150 °C
- Colour: green
- Certifications: NSF

CODE	J0170050	J0170250
L23	20,40	69,45
HT	14,15	48,16
Package	bottle	bottle
Quantity g	50	250

LTEC adhesives

SEALANT FOR PRECISE FITTINGS

NEW

Anaerobic adhesive sealant for threaded fittings; medium-strength, medium/low viscosity. Suitable for relatively precise hydraulic and pneumatic fittings.

SRP2

- Maximum diameter: MA20
- Working temperature: from -50 to +150 °C
- Colour: brown



CODE	J0177050
L23	47,79
HT	12,27
Package	bottle
Quantity g	50

SEALANT FOR ROUGH FITTINGS

NEW

Anaerobic adhesive sealant for threaded fittings; medium-strength, high viscosity. Can be removed. Specifically for rough threads in gas, water and steam fittings. The product's viscosity helps to seals gaps.

SRG7

- Working temperature: from -50 to +150 °C
- Colour: yellow
- Certifications: NSF - DVGW



CODE	J0175050
L23	44,94
HT	10,34
Package	Tube
Quantity g	50

LOCKING AGENTS FOR CYLINDRICAL COUPLINGS

NEW

High strength, medium viscosity, high temperature-resistant anaerobic locking agent. Generally suitable for securing bearings, gears, rotors and coaxial couplings.

BC8

- Filling gaps: from 0.05 to 0.15 mm
- Working temperature: from -50 to +180 °C
- Colour: green



CODE	J0180050
L23	29,49
HT	14,15
Package	bottle
Quantity g	50

4-IN-1 MULTIFUNCTION FOR MAINTENANCE

NEW

Medium/high strength, high viscosity, thixotropic multifunctional anaerobic adhesive. MRO41 has a pump dispenser for precise dosing. This product is suitable for sealing flanges and fittings, braking of screws and nuts, and for locking cylindrical couplings. A product specially designed for industrial maintenance.

MRO41

- Filling gaps: from 0.1 to 0.2 mm
- Working temperature: from -50 to +150 °C
- Colour: green
- Certifications: NSF - DVGW



CODE	J0190050
L23	44,86
HT	10,30
Package	bottle
Quantity g	35

SAFETY SHOES



RING 400

€ 39,00

K1211



SAFETY SHOES



STREET

€ 58,00

K1640



**BREATHABLE UPPER WITH
“ZERO” PUNCTURE-RESISTANT
INSOLE**

FOOTWEAR ICONS LEGEND



Safety requirements
S1P



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

	K1211	K1640	K1709	K1711	EU	US
K121136	-	-	-	-	36	4,5
K121137	-	-	-	-	37	5
K121138	K164038	K170938	K171138		38	5,5
K121139	K164039	K170939	K171139		39	6
K121140	K164040	K170940	K171140		40	7
K121141	K164041	K170941	K171141		41	8
K121142	K164042	K170942	K171142		42	8,5
K121143	K164043	K170943	K171143		43	9
K121144	K164044	K170944	K171144		44	10
K121145	K164045	K170945	K171145		45	11
K121146	K164046	K170946	K171146		46	11,5
K121147	K164047	K170947	K171147		47	12

+ TUMBLLED
NUBUCK UPPER

+ SOLIDBREATH®
LINING

+ ALUMINIUM
TOE CAP

+ TPU TOE GUARD

+ WIDE SOLE



GLIDER

€ 68,00

K1709



+ FULL-GRAIN
NAPPA LEATHER UPPER

+ SOLIDBREATH®
LINING

+ ALUMINIUM
TOE CAP

+ PU TOE GUARD

+ SOLE LUGS DESIGNED TO
EXPEL MUD AND LIQUID



**SUMMIT
SUPERB**

€ 65,00

K1711



NEW

DISPOSABLE GLOVES IN EMBOSSED NITRILE - 50 PIECES



Thickness
0,15mm



JKPT VIRUS

CODE	L23	HT	EU	
K251708	20,00	12,00	M	8
K251709	20,00	12,00	L	9
K251710	20,00	12,00	XL	10

WRK

GLOVES IN POLYESTER COATED IN POLYURETHANE

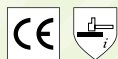


2121X

CODE	L22	HT	EU	
K23106	2,30	0,75	S	6
K23107	2,30	0,75	M	7
K23108	2,30	0,75	L	8
K23109	2,30	0,75	XL	9
K231010	2,30	0,75	XXL	10

NEW

POLYESTER GLOVES COATED WITH NITRILE



4122X

CODE	L23	HT	EU	
K230307	2,50	1,00		7
K230308	2,50	1,00		8
K230309	2,50	1,00		9
K230310	2,50	1,00		10

WRK

CUT RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT



4442C

CODE	L22	HT	EU	
K234607	7,49	4,00	S	7
K234608	7,49	4,00	M	8
K234609	7,49	4,00	L	9
K234610	7,49	4,00	XL	10

Ansell

NEW

GLOVES COATED WITH NBR ACTIVARMR® HYCRON®

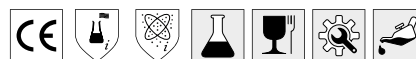


4121B

CODE	L23	HT	EU	
K221709	8,00	3,50	XL	9
K221710	7,00	3,50	XXL	10

WRK

DISPOSABLE NITRILE GLOVES 100 PIECES



EN 374-1



CODE	L22	HT	EU	
K251607	47,22	7,00	S	7
K251608	47,22	7,00	M	8
K251609	47,22	7,00	L	9
K251610	47,32	7,00	XL	10

FIRST AID KIT IN CASE

ABS case for first aid, with wall bracket for easy extraction.

Annex 2 up-rated in compliance with the Ministerial Decree of 388 15/07/03 - Decree Law 81/08

Colour	Orange
Dimension mm	310 x 210 x 120
Peso pieno-vuoto Kg	2,4 - 1,1



PROTECTIVE EYEWEAR WITH ELASTIC HEAD BAND

Polycarbonate frame with green and white rods. Frame designed to cushion the contact points on the face. Colourless lenses with certified anti-scratch and anti-mist treatment.

Rods adjustable in inclination, gasket mounted in soft rubber for a soft support on the face and nose; panoramic and enveloping lens for better lateral protection. Supplied with adjustable elastic band, it makes it more comfortable and guarantees greater impact protection.



Filter	2C - UV plus Filter
Grade	1.2 - Clear lens
Optical Class	Class 1
Protection VS Impact	F(T) - Low impact energy and high tempt exposure
Optional req.	K - Scratch resistant N - Anti-fog
	10

3M

DISPOSABLE EARPLUGS MOD. 1100

Soft and hypoallergenic polyurethane foam. Packaged in pairs.



CODE	K4320200
L22	0,30
HT	0,18
Frequency Hz	H - M - L - SNR
Attenuation db	37 - 34 - 31 - 37
	200



HEIGHT ADJUSTABLE WOODEN TOP WORKBENCHES



The wooden top workbenches are designed with seat ergonomics in mind, with the option of adjusting the height from a minimum of 740 mm to a maximum of 1110 mm. Multiplex wood top 30 mm thick. **Supplied disassembled.**

CODE	L22	HT	Dimension mm	Load capacity kg	Weight kg	Colour
P002710000	406,50	240,00	1024 x 750 x 740/1100h	600	48	RAL 5012
P002715000	484,00	285,00	1500 x 750 x 740/1100h	600	65	RAL 5012
P002720000	556,00	295,00	2000 x 750 x 740/1100h	600	115	RAL 5012
P00271000GA	427,00	250,00	1024 x 750 x 740/1100h	600	48	RAL 7035 + RAL 7016
P00271500GA	494,00	290,00	1500 x 750 x 740/1100h	600	65	RAL 7035 + RAL 7016
P00272000GA	561,00	330,00	2000 x 750 x 740/1100h	600	115	RAL 7035 + RAL 7016

METAL CONTAINERS



Painted metal sheet container, lifting stud, perpendicular block handle, label holder frame, grey RAL 7000.

CODE	L22	HT	Dimension mm	Weight kg	Eye
P4410140	44,00	7,80	140 x 230 x 130h	1,90	20
P4410200	28,50	16,00	200 x 350 x 200h	2,10	8
P4410300	99,00	22,00	300 x 500 x 200h	3,40	6

SWIVEL CHAIRS WITH LIFT ADJUSTMENT



Painted steel structure, five-star base with self-locking wheels.

CODE	L22	HT	Adjustment mm	Finish	Weight kg
P03202	304,00	175,00	495 ÷ 670	Polyurethane	12,40

WODEX 3-SHELF TROLLEY

RIBBED MAT

3-shelf trolley with ribbed mat on top shelf only; the two middle shelves have no mat. Equipped with anti-fall edges on all shelves to prevent objects from falling off during transport. Each shelf has an approximately 100 kg load capacity. Black, glass fibre reinforced handle with technopolymer cap. Tube in metallic grey aluminium, thickness 2 mm. Two swivel castors (Ø 100 mm) and two fixed castors (Ø 100 mm), one of which with brake. Supplied disassembled. RAL 5004 epoxy blue paint finish.

CODE		P543301
HT		180,00
Dimension	mm	750 x 450 x 950
Load capacity	kg	200
Weight	kg	22,5


CABINETS WITH FULL EXTENSION DRAWERS 54 X 27 EH


Cabinets with full extension drawers (100%), capacity 50 kg, anti-tilt opening system, central locking.

P21207C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

CODE	L22	HT	drawers n°	Dimension mm	Weight kg	Colour
P21207C01	4.295,00	780,00	7	1023 x 600 x 1000h	105	Blu RAL 5012

LARGE TROLLEYS


Trolleys **supplied disassembled** consisting of: 1 wooden top, 1 perforated rear panel, 1 pair of uprights for panel fixing, 2 perforated side panels, 1 kit of non-marking synthetic rubber wheels Ø 125 mm, 1 roll holder kit with paper. Ø 240/300 mm, 2 kits 10 magnets Ø 20 mm, 1 container hooking bar with 3 containers mis 2, 1 large reversible shelf, 1 6-piece spray can holder and 2 inclined 2-piece silicone holders.

CODE		P561001	P561002
HT		580,00	580,00
Dimension	mm	1024 x 615 x 1540h	1024 x 615 x 1540h
Colour		RAL 7035	RAL 5012
Load capacity	kg	300	300
Weight	kg	50	50

WORKBENCHES ON WHEELS

Stable work bench for workshop and production work stations.
Maximum stability with maximum 1 ton cabinet body load capacity.
Version with rubber wheels for moving to different workplaces.
Worktop in 40 mm plywood.

Fitted with handle, 2 fixed wheels and 2 braked castors (Ø 125 mm).

KEY Lock closure.

Capacity 400 kg
5 drawers 50 kg
KEY lock

5 DRAWERS
2x75 mm - 1x100 mm - 1x150 mm - 1x200 mm

CODE	P0041B01	
HT	1.425,00	
Dimension	mm	1250 x 700 x 877
Colour	RAL 5012	
Compartments	1	

UNIVERSAL SHELVING L1006


Galvanized universal shelving.
Quick and easy to assembly with an interlocking system for all elements and shelves, without the need for screws. Can always be adapted to new items to be stored thanks to the flexibility of installation and rearrangement of shelves, drawers and individual elements with a 25 mm pitch. Height of shelf edges only 25 mm to make the most of the shelves.

CODE	P630800	P6308A00
L22	290,18	209,77
HT	235,00	160,00
Dimension	mm	1000 x 400 x 2000h
Shelves	n°	5 x 160 Kg
Description	Universal shelving	Additional bay
Capacity	kg	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.

CODE	P3053B01	P3053B02
L22	733,15	733,15
HT	485,00	485,00
Dimension	mm	1000 x 500 x 1950h
Shelves	n°	4 x 60kg
Colour	RAL 5012	
Capacity	kg	500

LOCKERS WITH SLIDING DOORS

Lockers with two solid sheet steel sliding doors and partition. Very quiet running thanks to ball bearings mounted on the sliding guides. Swing/pressure cylinder with Key Lock closure, making door derailment impossible. Lista sliding doors are flush with the locker structure and do not protrude into the surrounding space. **Supplied assembled.**

Capacity 500 kg

4 Shelves 60 kg

KEY lock



CODE		P3056A01	P3056B01
HT		1.150,00	820,00
Dimension	mm	1500 x 500 x 1950h	1500 x 500 x 1000h
Shelves	n°	8	4
Colour		RAL 5012	RAL 5012

CABINET DRAWERS 27 X 27 E

7 Drawers:
2x75 mm
3x100 mm
2x150 mm

Dim. drawers:
459x459mm

Drawers capacity:
75 kg



Drawers that resists up to 4t, full exploitation of the drawers, blocking of the course, to prevent the drawers from falling, excellent characteristics of protection against dirt, liquids and mechanical stress, anti-corrosion protection thanks to the electrostatic coating. Includes Script List labelling.

CODE		P2114A01
HT		925,00
Dimension	mm	564 x 572 x 850h
Colour		RAL 5012



CLOTHES LOCKERS DIRTY/CLEAN



Clothes lockers dirty/clean, top shelf at h. 247 mm from the top with hanger rod equipped with towel “S” hooks in galvanized steel. Divider between shelf and bottom. Umbrella/towel holder in chromed steel rod mounted on the door. Drip tray in plastic material. Yale type cylinder lock with double key supplied.

CODE	L22	HT	Places	Dimension mm
P33112	925,00	270,00	2	810 x 500 x 1800
P33113	440,00	350,00	3	1200 x 500 x 1800

TOP QUALITY POLYPROPYLENE CONTAINERS



CODE	P4415120G	P4415170G	P4415220G
L22	10,42	13,29	14,54
HT	7,70	8,80	9,50
Dimension mm	400 x 300 x 120 h	400 x 300 x 170 h	400 x 300 x 220 h
Colour	Grey	Grey	Grey
	8	6	4

PLASTIC CONTAINERS

CODE	P43101G	P43102G	P43103A2G	P43104G
L22	4,44	2,89	6,99	16,54
HT	1,10	2,18	5,20	11,50
Size	1	2	3A2	4
Dimension mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	300 x 500 x 200 h
Colour	Grey	Grey	Grey	Grey
	50	54	21	10



CODE	P43101N	P43102N	P43103A2N	P43104N
L22	4,44	2,89	6,99	16,54
HT	1,10	2,18	5,20	11,50
Size	1	2	3A2	4
Dimension mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	300 x 500 x 200 h
Colour	Green	Green	Green	Green
	50	54	21	10



CODE	P43101R	P43102R	P43103A2R	P43104R
L22	4,44	2,89	6,99	16,54
HT	1,10	2,18	5,20	11,50
Size	1	2	3A2	4
Dimension mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	300 x 500 x 200 h
Colour	Red	Red	Red	Red
	50	54	21	10



CODE	P43101B	P43102B	P43103A2B	P43104B
L22	4,44	2,89	6,99	16,54
HT	1,10	2,18	5,20	11,50
Size	1	2	3A2	4
Dimension mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	300 x 500 x 200 h
Colour	Blue	Blue	Blue	Blue
	50	54	21	10





- Resistant
- Durable
- Fire resistant
Bfl-s1 EN 13501-1
- Non-slip
R12 DIN 51130
- Anti-scratch
- Anti-fatigue
- Sound absorbing

€ 10,00

P7421ULT

MODULAR PADS WITH RICE GRAIN FINISH

Modular pads that guarantee excellent resistance and durability, with a high anti-slip factor (R12) which makes it perfect for workplaces, even with liquid or oil spills, absorbs shocks and noise and has anti-fatigue properties.

It is applied by interlocking without the need for glues or fittings and withstands even extreme temperatures.

With rice grain finish, available in black.



2,38 Kg



14 mm



520 x 520 mm



0,025 Kg



60 x 60 mm



€ 6,50

P7426AG



0,24 Kg



520 x 60 mm



€ 9,50

P7422ULTG

HANDLING





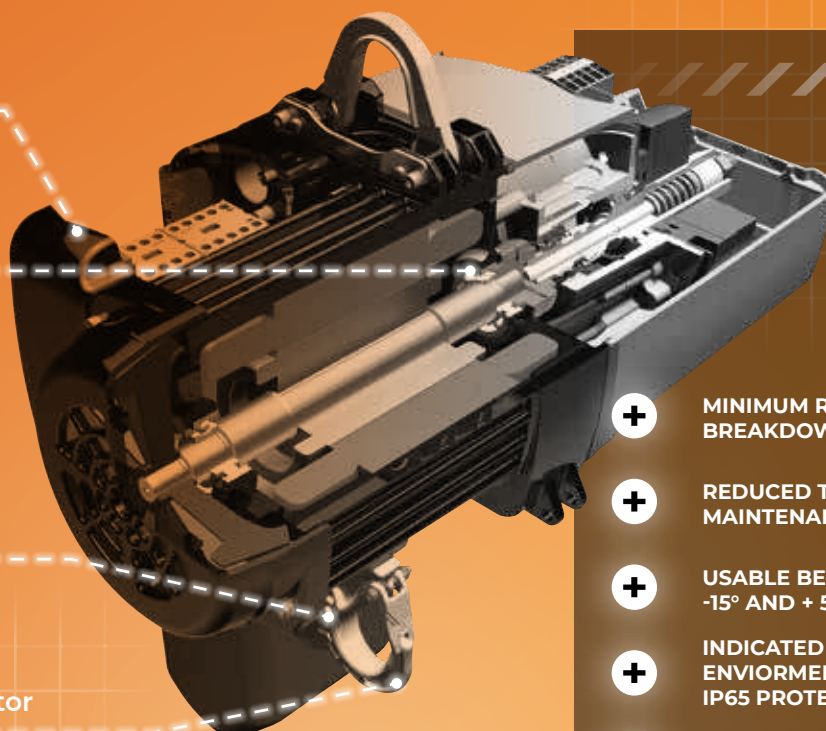
ELECTRIC CHAIN HOISTS

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	L22	HT	Load capacity kg	Model	Class FEM (ISO)	Speed min/m	Nr. chain falls	Excursion m	Power kW	Intensity A	Weight kg
M00051251NF2	2.122,55	1.600,00	125	GP250/1NF	4m (M7)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	2.122,55	1.600,00	200	GP250/1NF	3m (M6)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052501NF2	2.122,55	1.600,00	250	GP250/1NF	2m (M5)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00055002NF	2.299,34	1.700,00	500	GP250/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	25
M000510002NF	2.525,42	1.900,00	1000	GP500/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	28
M000516002NF	3.599,79	2.500,00	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

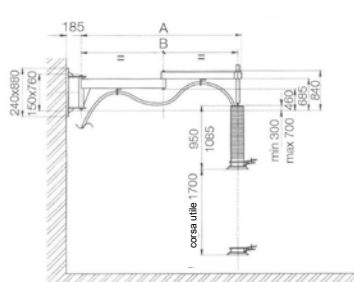
COLUMN-MOUNTED JIB CRANES WITH GIS SYSTEM KB PROFILE ARM

	CODE	L22	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
	M10101254000	2.057,00	1.625,00	125	SC 125/4000	4030	3865	305	3430	4025	570	560	2875	5	1A	3	720	280
	M10101255000	2.220,00	1.675,00	125	SC 125/5000	5030	4865	305	3430	4025	655	560	2875	6	1A	4	890	300
	M10101256000	2.435,00	1.725,00	125	SC 125/6000	6030	5850	305	3425	4025	680	560	2865	7	1A	5	1060	320
	M10102004000	2.138,00	1.700,00	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
	M10102005000	2.341,00	1.850,00	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
	M10102006000	2.686,00	2.000,00	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330

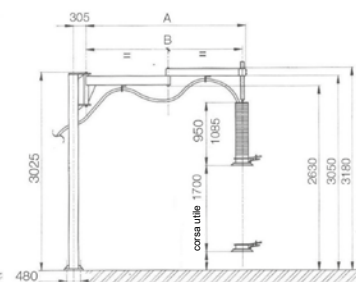
B·HANDLING

VACUUM LIFTERS VACU-B

Vacuum lifters guided by an electric vacuum pump for lifting various types of material.



Jib crane with articulated arm model AMH (wall mounted)



Jib crane with articulated arm model ACH (column mounted)

Features:

- 3 Phase pump 380V 50HZ
- Bellows air lift
- Filter protection for the pump
- 13m vacuum tube
- Lifting speed with continuous regulation from 0 to 30/min
- Usefull vertical run 1700mm
- 360 ° Roating suspension head 360° incontinuous

Advantages:

- Loads fast and accurate moving
- Vacume level regulation through a comfortable handle positioned on the control unit
- The system holds the load even in case of a power cut, slowly taking it down to the ground in an easy controlled manner



M301060PO



M301060PD

Model with oval pad

Model with double rectangular pad on 500 mm bar

CODE	L22	HT	Load capacity kg	Weight kg	Suitable for	Pad mm	Description
M301060PD	19.900,00	8.399,00	60	26	Box	120 x 320	Double rectangular plate
M301060PO	19.266,00	7.999,00	60	26	Bags in paper or pvc	180 x 370	Oval plate

B·HANDLING

LIFTING CLAMPS WITH INTERNAL GRIP

Features:

- Made of high-strength carbon steel, ensuring reels are handled safely and securely
- Handwheel operated gripping and release
- 3 clamping elements fitted with safety hooks that position themselves automatically under the reel when tightened

Advantages:

- The grips are covered in interchangeable high grip rubbers to prevent the lifted product from damage
- Can be adapted to the various dimensions of the materials to be lifted

Model	PI 500
Load capacity kg	500
Ø est. max. mm	900
Ø int. max. mm	600
Maximum heightmm	650
Weight kg	80

€ 5.500 ,00

M7070500

NEW



B·HANDLING

LIFTING CLAMPS WITH EXTERNAL GRIP

Features:

- Made of high-strength carbon steel, ensuring reels are handled safely and securely
- The reels are gripped and released automatically without the operator having to be close to the reel
- 3 clamping elements fitted with safety hooks that position themselves automatically under the reel when tightened

Advantages:

- The grips are covered in interchangeable high grip rubbers to prevent the lifted product from damage
- Can be adapted to the various dimensions of the materials to be lifted

Model	PE 500
Load capacity kg	500
Ø est. max. mm	600
Maximum height mm	400
Weight kg	65

€ 5.900 ,00

M7075500

NEW



B·HANDLING

FIXED LIFTING MONOBEAMS WITH HOOKS

CODE	L22	HT	Model	Max work load kg	Total length mm	Useful length L mm	Height mm	Weight kg
M81101000A	1.000,00	650,00	PBFA1-A	1.000	1050	1.000	440	20
M81101000D	1.145,00	750,00	PBFA1-D	1.000	2050	2.000	440	36
M81101000G	1.455,00	1.100,00	PBFA1-G	1.000	3050	3.000	440	90
M81101000J	1.915,00	1.250,00	PBFA1-J	1.000	4050	4.000	495	145
M81102000A	1.025,00	660,00	PBFB2-A	2.000	1050	1.000	460	25
M81102000D	1.280,00	850,00	PBFB2-D	2.000	2050	2.000	460	65
M81102000G	1.655,00	1.075,00	PBFB2-G	2.000	3050	3.000	485	115
M81102000J	2.225,00	1.450,00	PBFB2-J	2.000	4050	4.000	500	184
M81103000A	1.030,00	670,00	PBFC3-A	3.000	1050	1.000	485	30
M81103000D	1.420,00	900,00	PBFC3-D	3.000	2050	2.000	485	85
M81103000G	1.865,00	1.200,00	PBFC3-G	3.000	3050	3.000	505	145
M81103000J	2.510,00	1.650,00	PBFC3-J	3.000	4050	4.000	525	225
M81104000A	1.192,00	775,00	PBFD4-A	4.000	1050	1.000	510	45
M81104000D	1.655,00	1.075,00	PBFD4-D	4.000	2050	2.000	510	110
M81104000G	1.950,00	1.275,00	PBFD4-G	4.000	3050	3.000	530	150
M81104000J	2.610,00	1.700,00	PBFD4-J	4.000	4050	4.000	550	230
M81105000A	1.265,00	825,00	PBFE5-A	5.000	1050	1.000	620	55
M81105000D	1.760,00	1.125,00	PBFE5-D	5.000	2050	2.000	620	125
M81105000G	2.505,00	1.500,00	PBFE5-G	5.000	3050	3.000	650	215

B·HANDLING

FORK MOUNTED HOOKS

Hook attachment, single fork, can be placed anywhere on the fork.

Features:

- Body and components made of high quality steel
- Suitable for lifting and transporting parts using the swivel hook

Advantages:

- Safety mechanism that prevents the load from being released during lifting and handling
- Can be positioned anywhere on the fork



CODE	M81702000	M81705000
L22	1.135,00	1.300,00
HT	650,00	730,00
Capacity kg	2000	5000
Weight kg	27	30

Supplied with:
- Use and maintenance manual

B·HANDLING

HAND PALLET TRUCKS

Features:

- Sturdy painted steel structure
 - Switch lever featuring good ergonomic grip for easy operation.
- 3-position control: down - neutral - up.
- Cast iron wheels, thermoplastic polymer coating.

Supplied with:

- Instruction manual of use and maintenance
- Handlebar is delivered as not assembled

Load capacity kg	2500
Forks mm	1150 x 540
Total length mm	1550
Lift h mm	85 - 200
Steering angle	220°
Total height mm	1230
Rolls dimensions mm	82 x 70 double
Weight kg	72

€ 315 ,00
M90102500



B·HANDLING

SCALE PALLET TRUCKS

- 3 position control: down - neutral - up
- Steering wheels and double loading polyurethane rollers
- 4 shear-beam aluminum-based load cells
- 25 mm, backlit LCD display, 6 high-contrast digits which are clearly visible even in poor lighting conditions
- Waterproof membrane keyboard with 5 functional, easy to use and intuitive keys
- Configuration, calibration and diagnostics from keyboard
- Power supply through 4 AA-type battery set, also rechargeable
- Operating time is of 40 hours of continuous use
- Programmable auto switch-off function, battery level indication
- High resolution weighing x 10
- Function of zeroing, tare, net/gross, lb/kg conversion, accumulation, formulation +/- checkweighing, counting

Load capacity kg	2000
Precision kg	+/- 0,2
Forks mm	1150 x 550
Lift h mm	83 - 200
Rolls dimensions mm	74 x 70 double
Weight kg	127

€ 1.150 ,00
M91142000



TOP *TIPS*

+



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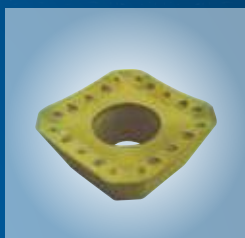


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A+B

Industrial Tools Company



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