

L U B
R I C
A N T

P R E
C I S
I O N
T O O
L I N

G - -

HIGHLIGHT TECHNOLOGY

M E T
R O L
O G Y

M R O

H A N
D L I
N G

NET PRICES VALID UNTIL 31.01.23 (VAT EXCLUDED)

EN





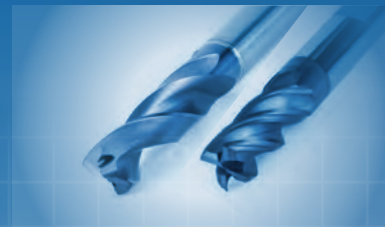
The A + B Group is an industrial reality that has 14 companies producing and distributing products around 3 meters from the machine tool.



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.



Worldwide we serve more than 15.000 customers.



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



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.

32
LUBRICANTS



38
MRO



04
PRECISION
TOOLING

*in 3 m
everything*



68

HANDLING



26

METROLOGY

eters

you need

NET PRICES VALID UNTIL 31.01.23 (VAT EXCLUDED)

PRECISION
TOOLING
p 04

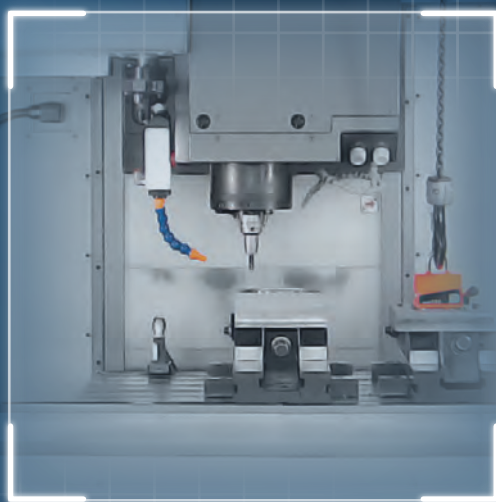
METROLOGY
p 26

LUBRICANTS
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PRECISION TOOLING



KERFOLG HD

DRILLS REINFORCED SHANK

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

REINFORCED SHANK

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

ADVANCED FLUTE DESIGN

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

LUBRICATION HOLES

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

SPLIT POINT

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

80%
OF MATERIALS

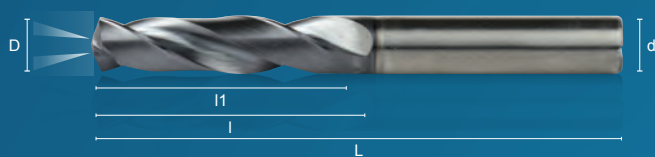
LESS POWER REQUIRED

BETTER TOOL LIFE

REDUCTION IN MACHINE DOWN TIMES

UNIVERSAL TOOL

DRILLS REINFORCED SHANK 3XD COOLANT HOLES



SPECS

MATERIALS



CODE	L22	HT	D mm	d mm	I mm	L mm	l1 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	32,00	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	l1 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	43,00	6,10	8	34	79	24
A00206,2	73,40	43,00	6,20	8	34	79	24
A00206,3	73,40	43,00	6,30	8	34	79	24
A00206,4	73,40	43,00	6,40	8	34	79	24
A00206,5	73,40	43,00	6,50	8	34	79	24
A00206,8	73,40	43,00	6,80	8	34	79	24
A00206,9	73,40	43,00	6,90	8	34	79	24
A00207	73,40	43,00	7,00	8	34	79	24
A00207,1	73,40	43,00	7,10	8	34	79	29
A00207,2	73,40	43,00	7,20	8	34	79	29
A00207,3	73,40	43,00	7,30	8	34	79	29
A00207,4	73,40	43,00	7,40	8	41	79	29
A00207,5	73,40	43,00	7,50	8	41	79	29
A00207,7	73,40	43,00	7,70	8	41	79	29
A00207,8	73,40	43,00	7,80	8	41	79	29
A00207,9	73,40	43,00	7,90	8	41	79	29
A00208	73,40	43,00	8,00	8	41	79	29
A00208,1	82,60	49,00	8,10	10	47	89	35
A00208,2	82,60	49,00	8,20	10	47	89	35
A00208,3	82,60	49,00	8,30	10	47	89	35
A00208,4	82,60	49,00	8,40	10	47	89	35
A00208,5	82,60	49,00	8,50	10	47	89	35
A00208,6	82,60	49,00	8,60	10	47	89	35
A00208,7	82,60	49,00	8,70	10	47	89	35
A00208,8	82,60	49,00	8,80	10	47	89	35

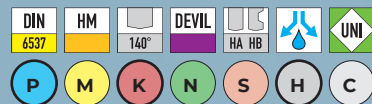
CODE	L22	HT	D mm	d mm	I mm	L mm	l1 mm
A00209	82,60	49,00	9,00	10	47	89	35
A00209,2	84,90	49,00	9,20	10	47	89	35
A00209,3	82,60	49,00	9,30	10	47	89	35
A00209,5	82,60	49,00	9,50	10	47	89	35
A00209,7	82,60	49,00	9,70	10	47	89	35
A00209,8	82,60	49,00	9,80	10	47	89	35
A002010	82,60	49,00	10,00	10	47	89	35
A002010,2	117,90	70,00	10,20	12	55	102	40
A002010,5	117,90	70,00	10,50	12	55	102	40
A002010,8	117,90	70,00	10,80	12	55	102	40
A002011	117,90	70,00	11,00	12	55	102	40
A002011,2	117,90	70,00	11,20	12	55	102	40
A002011,5	117,90	70,00	11,50	12	55	102	40
A002011,8	117,90	70,00	11,80	12	55	102	40
A002012	117,90	70,00	12,00	12	55	102	40
A002012,2	153,90	120,00	12,20	14	60	107	43
A002012,5	153,90	92,00	12,50	14	60	107	43
A002012,8	153,90	92,00	12,80	14	60	107	43
A002013	153,90	92,00	13,00	14	60	107	43
A002013,5	153,90	92,00	13,50	14	60	107	43
A002013,8	153,90	92,00	13,80	14	60	107	43
A002014	153,90	92,00	14,00	14	60	107	43
A002014,5	173,60	110,00	14,50	14	60	107	43
A002015	173,60	110,00	15,00	16	65	115	45
A002015,5	173,60	110,00	15,50	16	65	115	45
A002016	173,60	110,00	16,00	16	65	115	45

DRILLS REINFORCED SHANK 5XD COOLANT HOLES



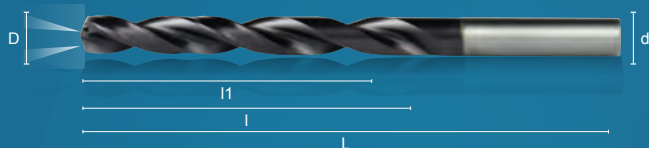
SPECS

MATERIALS



CODE	L22	HT	D mm	d mm	I mm	L mm	l1 mm
A00401	64,70	38,00	1,00	4	7	45	6
A00401,1	64,70	38,00	1,10	4	7,5	45	6
A00401,2	64,70	38,00	1,20	4	8,5	45	7
A00401,3	64,70	38,00	1,30	4	9	45	7
A00401,4	64,70	38,00	1,40	4	10	45	8
A00401,5	64,70	38,00	1,50	4	10,5	50	8
A00401,6	64,70	38,00	1,60	4	11	50	9
A00401,7	64,70	38,00	1,70	4	12	50	9
A00401,8	64,70	38,00	1,80	4	12,5	50	10
A00401,85	90,70	50,00	1,85	4	12,5	50	10
A00401,9	64,70	38,00	1,90	4	13,5	50	10
A00402	64,70	38,00	2,00	4	14	55	11
A00402,1	64,70	38,00	2,10	4	14,5	55	12
A00402,2	64,70	38,00	2,20	4	15,5	55	12
A00402,3	64,70	38,00	2,30	4	16	55	13
A00402,4	64,70	38,00	2,40	4	17	55	13
A00402,5	64,70	38,00	2,50	4	17,5	55	14
A00402,6	64,70	38,00	2,60	4	18	55	14
A00402,7	64,70	38,00	2,70	4	19	55	15
A00402,8	64,70	38,00	2,80	4	19,5	55	15
A00402,9	64,70	38,00	2,90	4	20,5	55	16
A00403	69,20	41,00	3,00	6	28	66	23
A00403,1	69,20	41,00	3,10	6	28	66	23
A00403,2	69,20	41,00	3,20	6	28	66	23
A00403,3	69,20	41,00	3,30	6	28	66	23
A00403,4	69,20	41,00	3,40	6	28	66	23
A00403,5	69,20	41,00	3,50	6	28	66	23
A00403,6	69,20	41,00	3,60	6	28	66	23
A00403,7	69,20	41,00	3,70	6	28	66	23
A00403,8	69,20	41,00	3,80	6	36	74	29
A00403,9	69,20	41,00	3,90	6	36	74	29
A00404	74,50	44,00	4,00	6	36	74	29
A00404,1	74,50	44,00	4,10	6	36	74	29
A00404,2	74,50	44,00	4,20	6	36	74	29
A00404,3	74,50	44,00	4,30	6	36	74	29
A00404,4	74,50	44,00	4,40	6	36	74	29
A00404,5	74,50	44,00	4,50	6	36	74	29
A00404,6	74,50	44,00	4,60	6	36	74	29
A00404,7	74,50	44,00	4,70	6	36	74	29
A00404,8	74,50	44,00	4,80	6	44	82	35
A00404,9	74,50	44,00	4,90	6	44	82	35
A00405	74,50	44,00	5,00	6	44	82	35

CODE	L22	HT	D mm	d mm	I mm	L mm	l1 mm
A00405,1	74,50	44,00	5,10	6	44	82	35
A00405,2	74,50	44,00	5,20	6	44	82	35
A00405,3	74,50	44,00	5,30	6	44	82	35
A00405,4	74,50	44,00	5,40	6	44	82	35
A00405,5	74,50	44,00	5,50	6	44	82	35
A00405,6	74,50	44,00	5,60	6	44	82	35
A00405,7	74,50	44,00	5,70	6	44	82	35
A00405,8	74,50	44,00	5,80	6	44	82	35
A00405,9	74,50	44,00	5,90	6	44	82	35
A00406	74,50	44,00	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	56,00	8,10	10	61	91	



SPECS



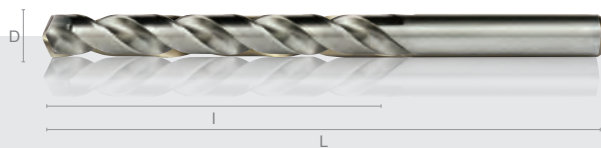
MATERIALS



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A00504	427,90	76,00	4,00	6	43	81	36
A00504,1	427,90	76,00	4,10	6	43	81	36
A00504,2	427,90	76,00	4,20	6	43	81	36
A00504,3	427,90	76,00	4,30	6	43	81	36
A00504,5	427,90	76,00	4,50	6	43	81	36
A00504,6	427,90	76,00	4,60	6	43	81	36
A00504,7	427,90	76,00	4,70	6	43	81	36
A00504,8	427,90	76,00	4,80	6	57	95	48
A00504,9	427,90	76,00	4,90	6	57	95	48
A00505	427,90	76,00	5,00	6	57	95	48
A00505,1	427,90	76,00	5,10	6	57	95	48
A00505,2	427,90	76,00	5,20	6	57	95	48
A00505,3	427,90	76,00	5,30	6	57	95	48
A00505,5	427,90	76,00	5,50	6	57	95	48
A00505,8	427,90	76,00	5,80	6	57	95	48
A00505,9	427,90	76,00	5,90	6	57	95	48
A00506	427,90	76,00	6,00	6	57	95	48
A00506,1	459,20	95,00	6,10	8	76	114	64
A00506,2	459,20	95,00	6,20	8	76	114	64
A00506,3	459,20	95,00	6,30	8	76	114	64
A00506,5	459,20	95,00	6,50	8	76	114	64
A00506,6	459,20	95,00	6,60	8	76	114	64
A00506,7	459,20	95,00	6,70	8	76	114	64
A00506,8	459,20	95,00	6,80	8	76	114	64
A00507	459,20	95,00	7,00	8	76	114	64
A00507,4	459,20	95,00	7,40	8	76	114	64
A00507,5	459,20	95,00	7,50	8	76	114	64
A00507,7	459,20	95,00	7,70	8	76	114	64
A00507,8	459,20	95,00	7,80	8	76	114	64
A00508	459,20	95,00	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	268,20	160,00	10,50	12	114	162	96
A005011	268,20	160,00	11,00	12	114	162	96
A005011,5	268,20	160,00	11,50	12	114	162	96
A005012	268,20	160,00	12,00	12	114	162	96
A005012,5	404,50	240,00	12,50	14	133	178	112
A005013	404,50	240,00	13,00	14	133	178	112
A005013,5	404,50	240,00	13,50	14	133	178	112
A005014	404,50	240,00	14,00	14	133	178	112
A005014,5	529,40	315,00	14,50	16	152	203	128
A005015	529,40	315,00	15,00	16	152	203	128
A005015,5	529,40	315,00	15,50	16	152	203	128
A005016	529,40	315,00	16,00	16	152	203	128

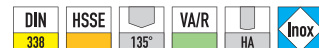
FOLLOW THE
KERFOLG 
PROGRAM
FOR YOUR MACHINING
OPERATION

JOBBER DRILLS



CODE	L22	HT	D mm	I mm	L mm
A113501	3,42	1,90	1,00	12	34
A113501,25	3,68	2,20	1,25	16	38
A113501,5	2,96	1,80	1,50	18	40
A113502	2,96	1,80	2,00	24	49
A113502,25	3,64	2,20	2,25	27	53
A113502,5	2,96	1,80	2,50	30	57
A113502,75	3,64	2,20	2,75	33	61
A113502,8	3,88	2,30	2,80	33	61
A113503	2,93	1,80	3,00	33	61
A113503,1	3,58	2,10	3,10	36	65
A113503,2	3,58	2,10	3,20	36	65
A113503,25	3,58	2,10	3,25	36	65
A113503,3	3,58	2,10	3,30	36	65
A113503,5	3,53	2,10	3,50	39	70
A113503,7	4,66	2,80	3,70	39	70
A113503,75	4,23	2,50	3,75	39	70
A113503,8	4,66	2,80	3,80	43	75
A113504	3,81	2,30	4,00	43	75
A113504,1	4,23	2,50	4,10	43	75
A113504,2	4,23	2,50	4,20	43	75
A113504,25	4,23	2,50	4,25	43	75
A113504,3	4,66	2,80	4,30	47	80
A113504,5	4,23	2,50	4,50	47	80
A113504,75	4,74	2,80	4,75	47	80
A113504,8	6,19	3,10	4,80	52	86
A113505	4,52	2,70	5,00	52	86
A113505,1	5,38	3,20	5,10	52	86
A113505,2	5,60	3,30	5,20	52	86
A113505,25	5,28	3,10	5,25	52	86

SPECS



MATERIALS



CODE	L22	HT	D mm	I mm	L mm
A113505,5	5,73	3,40	5,50	57	93
A113505,7	7,07	4,20	5,70	57	93
A113505,75	6,39	3,80	5,75	57	93
A113506	6,19	3,60	6,00	57	93
A113506,25	6,97	4,10	6,25	63	101
A113506,5	7,12	4,20	6,50	63	101
A113506,75	8,34	5,00	6,75	69	109
A113506,8	8,34	5,00	6,80	69	109
A113507	7,76	4,60	7,00	69	109
A113507,25	10,66	6,40	7,25	69	109
A113507,5	8,27	5,00	7,50	69	109
A113508	9,68	5,80	8,00	75	117
A113508,25	12,34	7,40	8,25	75	117
A113508,5	10,99	6,00	8,50	75	117
A113509	12,90	7,80	9,00	81	125
A113509,1	17,99	10,80	9,10	81	125
A113509,5	13,36	8,00	9,50	81	125
A113510	14,74	9,00	10,00	87	133
A113510,2	19,80	12,00	10,20	87	133
A113510,25	25,79	15,50	10,25	87	133
A113510,5	19,80	12,00	10,50	87	133
A113511	21,96	13,00	11,00	94	142
A113511,5	25,24	15,00	11,50	94	142
A113512	27,04	16,00	12,00	101	151
A113512,5	30,99	18,00	12,50	101	151
A113513	30,55	18,00	13,00	101	151

JOBBER DRILLS



CODE	L22	HT	D mm	I mm	L mm
A112503	1,45	0,90	3,00	33	61
A112503,3	3,16	1,90	3,30	36	65
A112503,5	3,24	1,90	3,50	39	70
A112504	3,33	2,00	4,00	43	75
A112504,2	3,66	2,20	4,20	43	75
A112504,5	3,63	2,20	4,50	47	80
A112505	3,94	2,30	5,00	52	86
A112505,5	5,00	3,00	5,50	57	93
A112506	5,32	3,20	6,00	57	93
A112506,5	6,39	3,80	6,50	63	101
A112506,8	7,16	4,30	6,80	69	109
A112507	6,97	4,20	7,00	69	109
A112507,5	7,45	4,50	7,50	69	109

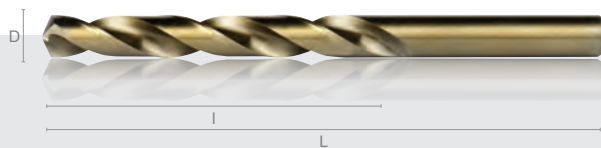
SPECS



MATERIALS



CODE	L22	HT	D mm	I mm	L mm
A112508	8,74	5,20	8,00	75	117
A112508,5	9,07	5,40	8,50	75	117
A112509	11,59	7,00	9,00	81	125
A112509,5	11,99	7,20	9,50	81	125
A112510	13,17	7,90	10,00	87	133
A112510,2	18,67	11,20	10,20	87	133
A112510,5	18,67	11,20	10,50	87	133
A112511	20,65	12,40	11,00	94	142
A112511,5	24,68	15,00	11,50	94	142
A112512	26,39	15,80	12,00	101	151
A112512,5	32,14	19,00	12,50	101	151
A112513	32,94	19,70	13,00	101	151



SPECS

DIN	HSSE	130°	N/R	HA
338				

MATERIALS

P	M	K	N	S	H	C

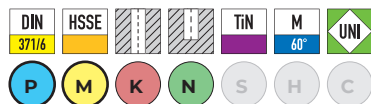
CODE	L22	HT	D mm	I mm	L mm
A11451	4,89	2,90	1,00	12	34
A11451,1	4,80	2,90	1,10	14	36
A11451,2	4,89	2,90	1,20	16	38
A11451,3	4,76	2,80	1,30	16	38
A11451,4	4,55	2,70	1,40	18	40
A11451,5	4,22	2,50	1,50	18	40
A11451,6	2,74	1,60	1,60	20	43
A11451,7	2,67	1,60	1,70	20	43
A11451,8	2,63	1,60	1,80	22	46
A11451,9	2,63	1,60	1,90	22	46
A11452	2,56	1,60	2,00	24	49
A11452,1	2,67	1,60	2,10	24	49
A11452,2	2,74	1,60	2,20	27	53
A11452,3	2,67	1,60	2,30	27	53
A11452,4	2,83	1,60	2,40	30	57
A11452,5	2,74	1,60	2,50	30	57
A11452,6	2,93	1,70	2,60	30	57
A11452,7	3,00	1,80	2,70	33	61
A11452,8	2,93	1,80	2,80	33	61
A11452,9	3,06	1,80	2,90	33	61
A11453	2,97	1,80	3,00	33	61
A11453,2	3,27	1,90	3,20	36	65
A11453,3	3,27	1,90	3,30	36	65
A11453,4	3,50	2,20	3,40	39	70
A11453,5	3,44	2,20	3,50	39	70
A11453,6	3,75	2,20	3,60	39	70
A11453,7	3,66	2,20	3,70	39	70
A11453,8	3,87	2,20	3,80	43	75
A11453,9	3,87	2,20	3,90	43	75
A11454	3,80	2,20	4,00	43	75
A11454,1	3,98	2,20	4,10	43	75
A11454,2	3,94	2,20	4,20	43	75
A11454,3	4,34	2,50	4,30	47	80
A11454,5	4,16	2,50	4,50	47	80
A11454,6	4,29	2,50	4,60	47	80
A11454,7	4,29	2,50	4,70	47	80
A11454,8	4,54	2,50	4,80	52	86
A11454,9	4,68	2,50	4,90	52	86
A11455	4,60	2,50	5,00	52	86
A11455,1	5,24	3,10	5,10	52	86
A11455,2	5,17	3,10	5,20	52	86
A11455,3	5,09	3,10	5,30	52	86
A11455,5	5,75	3,50	5,50	57	93
A11455,6	5,67	3,50	5,60	57	93
A11455,7	6,24	3,50	5,70	57	93
A11455,8	6,02	3,50	5,80	57	93
A11456	6,12	3,50	6,00	57	93

CODE	L22	HT	D mm	I mm	L mm
A11456,1	6,59	4,00	6,10	63	101
A11456,2	6,50	4,00	6,20	63	101
A11456,3	6,24	4,00	6,30	63	101
A11456,4	6,68	4,00	6,40	63	101
A11456,5	6,59	4,00	6,50	63	101
A11456,6	7,16	4,20	6,60	63	101
A11456,7	7,02	4,20	6,70	63	101
A11456,8	7,69	4,50	6,80	69	109
A11457	7,42	4,50	7,00	69	109
A11457,1	7,96	4,50	7,10	69	109
A11457,3	8,52	5,00	7,30	69	109
A11457,5	8,36	5,00	7,50	69	109
A11457,7	9,19	5,50	7,70	75	117
A11457,8	9,16	5,50	7,80	75	117
A11458	8,85	5,50	8,00	75	117
A11458,2	9,64	5,50	8,20	75	117
A11458,3	9,47	5,50	8,30	75	117
A11458,4	9,92	6,00	8,40	75	117
A11458,5	9,76	6,00	8,50	75	117
A11458,6	11,05	6,50	8,60	81	125
A11458,7	10,86	6,50	8,70	81	125
A11458,9	10,08	9,60	8,90	81	125
A11459	11,54	9,60	9,00	81	125
A11459,1	10,08	9,60	9,10	81	125
A11459,2	10,08	9,60	9,20	81	125
A11459,3	10,33	9,60	9,30	81	125
A11459,4	10,33	9,60	9,40	81	125
A11459,5	10,33	9,60	9,50	81	125
A11459,7	11,94	10,70	9,70	87	133
A11459,8	11,26	11,60	9,80	87	133
A114510	11,22	10,30	10,00	87	133
A114510,2	11,85	13,10	10,20	87	133
A114510,5	12,56	13,50	10,50	87	133
A114511	15,60	15,40	11,00	94	142
A114511,5	18,24	17,00	11,50	94	142
A114512	18,37	18,80	12,00	101	151
A114512,5	18,83	15,00	12,50	101	151
A114513	18,27	15,10	13,00	101	151

UNIVERSAL TAPS - M

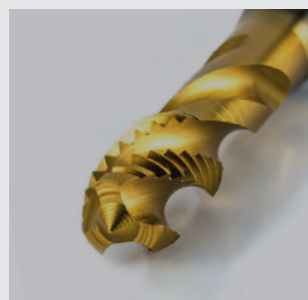
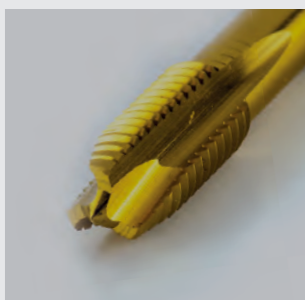


SPECS

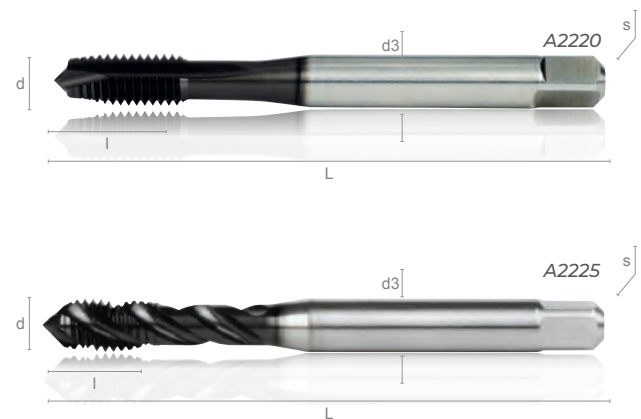


MATERIALS

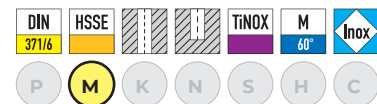
CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Preforo mm	DIN
A2104M02	38,34	23,00	2 x 0,4	45	4	2,8	2,1	1,6	371
A2104M02,5	38,34	23,00	2,5 x 0,45	50	5	2,8	2,1	2,05	371
A2104M03	29,77	18,00	3 x 0,5	56	6	3,5	2,7	2,5	371
A2104M04	34,96	19,00	4 x 0,7	63	7	4,5	3,4	3,3	371
A2104M05	34,59	19,00	5 x 0,8	70	8	6	4,9	4,2	371
A2104M06	35,88	22,00	6 x 1	80	10	6	4,9	5	371
A2104M08	39,41	23,00	8 x 1,25	90	14	8	6,2	6,8	371
A2104M10	50,12	30,00	10 x 1,5	100	16	10	8	8,5	371
A2104M12	58,16	35,00	12 x 1,75	110	18	9	7	10,2	376
A2104M14	79,47	47,00	14 x 2	110	20	11	9	12	376
A2104M16	74,54	45,00	16 x 2	110	22	12	9	14	376
A2104M18	115,13	69,00	18 x 2,5	125	25	14	11	15,5	376
A2104M20	104,85	63,00	20 x 2,5	140	25	16	12	17,5	376
A2104M22	175,32	105,00	22 x 2,5	140	27	18	14,5	19,5	376
A2104M24	149,62	90,00	24 x 3	160	30	18	14,5	21	376
A2104M27	192,99	116,00	27 x 3	160	30	20	16	24	376
A2104M30	219,23	132,00	30 x 3,5	180	35	22	18	26,5	376
A2105M02	38,66	23,00	2 x 0,4	45	4	2,8	2,1	1,6	371
A2105M02,5	38,34	23,00	2,5 x 0,45	50	5	2,8	2,1	2,05	371
A2105M03	34,27	20,00	3 x 0,5	56	6	3,5	2,7	2,5	371
A2105M04	35,45	21,00	4 x 0,7	63	7	4,5	3,4	3,3	371
A2105M05	36,94	22,00	5 x 0,8	70	8	6	4,9	4,2	371
A2105M06	37,91	22,00	6 x 1	80	10	6	4,9	5	371
A2105M08	42,30	25,00	8 x 1,25	90	14	8	6,2	6,8	371
A2105M10	48,73	29,00	10 x 1,5	100	16	10	8	8,5	371
A2105M12	61,58	37,00	12 x 1,75	110	18	9	7	10,2	376
A2105M14	83,65	50,00	14 x 2	110	20	11	9	12	376
A2105M16	84,92	51,00	16 x 2	110	22	12	9	14	376
A2105M18	123,86	74,00	18 x 2,5	125	25	14	11	15,5	376
A2105M20	143,30	86,00	20 x 2,5	140	25	16	12	17,5	376
A2105M22	190,75	115,00	22 x 2,5	140	27	18	14,5	19,5	376
A2105M24	165,90	100,00	24 x 3	160	30	18	14,5	21	376
A2105M27	204,56	123,00	27 x 3	160	30	20	16	24	376
A2105M30	237,55	143,00	30 x 3,5	180	35	22	18	26,5	376



TAPS FOR INOX - M



SPECS



MATERIALS

CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Preforo mm	DIN
A2220M3	30,34	18,00	3 x 0,5	56	10	3,5	2,7	2,5	371
A2220M4	30,34	18,00	4 x 0,7	63	12	4,5	3,4	3,3	371
A2220M5	30,34	18,00	5 x 0,8	70	14	6	4,9	4,2	371
A2220M6	30,34	18,00	6 x 1	80	16	6	4,9	5	371
A2220M8	37,81	23,00	8 x 1,25	90	18	8	6,2	6,8	371
A2220M10	44,55	27,00	10 x 1,5	100	20	10	8	8,5	371
A2220M12	54,94	33,00	12 x 1,75	110	25	9	7	10,2	376
A2220M14	71,22	43,00	14 x 2	110	25	11	9	12	376
A2220M16	80,22	48,00	16 x 2	110	28	12	9	14	376
A2220M18	99,39	60,00	18 x 2,5	125	32	14	11	15,5	376
A2220M20	134,84	81,00	20 x 2,5	140	32	16	12	17,5	376
A2225M3	32,34	20,00	3 x 0,5	56	10	3,5	2,7	2,5	371
A2225M4	32,34	20,00	4 x 0,7	63	12	4,5	3,4	3,3	371
A2225M5	32,34	20,00	5 x 0,8	70	14	6	4,9	4,2	371
A2225M6	32,34	20,00	6 x 1	80	16	6	4,9	5	371
A2225M8	39,63	24,00	8 x 1,25	90	18	8	6,2	6,8	371
A2225M10	47,66	29,00	10 x 1,5	100	20	10	8	8,5	371
A2225M12	58,69	35,00	12 x 1,75	110	24	9	7	10,2	376
A2225M14	76,90	46,00	14 x 2	110	25	11	9	12	376
A2225M16	86,43	52,00	16 x 2	110	28	12	9	14	376
A2225M18	107,96	65,00	18 x 2,5	125	32	14	11	15,5	376
A2225M20	142,44	85,00	20 x 2,5	140	32	16	12	17,5	376



TAPS FOR ALUMINIUM - M



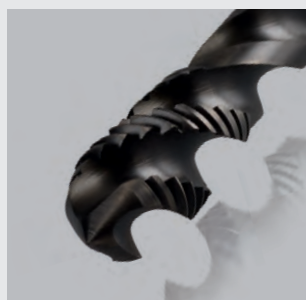
SPECS



MATERIALS



CODE	L22	HT	d x p mm	L mm	l mm	d3 mm	s mm	Preforo mm	DIN
A2260M3	30,95	19,00	3 x 0,5	56	10	3,5	2,7	2,5	371
A2260M4	34,84	19,00	4 x 0,7	63	12	4,5	3,4	3,3	371
A2260M5	34,84	19,00	5 x 0,8	70	14	6	4,9	4,2	371
A2260M6	34,84	19,00	6 x 1	80	16	6	4,9	5	371
A2260M8	38,88	23,00	8 x 1,25	90	18	8	6,2	6,8	371
A2260M10	45,20	27,00	10 x 1,5	100	20	10	8	8,5	371
A2260M12	57,49	34,00	12 x 1,75	110	24	9	7	10,2	376
A2260M14	72,72	44,00	14 x 2	110	25	11	9	12	376
A2260M16	82,25	49,00	16 x 2	110	28	12	9	14	376
A2265M3	34,84	21,00	3 x 0,5	56	7	3,5	2,7	2,5	371
A2265M4	34,84	21,00	4 x 0,7	63	8,5	4,5	3,4	3,3	371
A2265M5	34,84	21,00	5 x 0,8	70	10	6	4,9	4,2	371
A2265M6	34,84	21,00	6 x 1	80	12	6	4,9	5	371
A2265M8	40,16	24,00	8 x 1,25	90	15	8	6,2	6,8	371
A2265M10	47,66	28,00	10 x 1,5	100	17,5	10	8	8,5	371
A2265M12	58,80	35,00	12 x 1,75	110	18	9	7	10,2	376
A2265M14	77,90	46,00	14 x 2	110	20,5	11	9	12	376
A2265M16	86,90	52,00	16 x 2	110	20,5	12	9	14	376
A2265M18	107,64	65,00	18 x 2,5	125	25,5	14	11	15,5	376
A2265M20	143,09	86,00	20 x 2,5	140	29,5	16	12	17,5	376

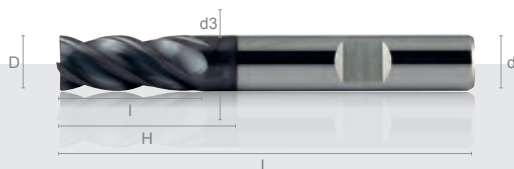


FOLLOW THE
KERFOLG 
PROGRAM
FOR YOUR MACHINING
OPERATION

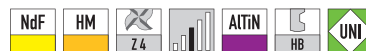
FOLLOW THE KERFOLG PROGRAM FOR YOUR MACHINING OPERATION

KERFOLG

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	38,00	4	57	11	14	6	3,8	0,1	4
A40405	47,00	28,00	5	57	13	17	6	4,8	0,1	4
A40406	47,00	28,00	6	57	13	17	6	5,8	0,1	4
A40407	66,90	40,00	7	63	21	25	8	6,8	0,2	4
A40408	64,70	38,00	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
A40410	94,30	57,00	10	72	22	27	10	9,7	0,2	4
A40412	126,90	76,00	12	83	26	32	12	11,6	0,3	4
A40414	143,10	86,00	14	83	26	32	14	13,6	0,3	4
A40416	196,10	117,00	16	92	36	43	16	15,5	0,3	4
A40420	308,50	185,00	20	104	41	51	20	19,5	0,3	4

KERFOLG

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	32,00	4	55	11	6	0,25	5
A405705	62,92	32,00	5	57	13	6	0,25	5
A405706	62,92	32,00	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	111,14	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	140,00	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

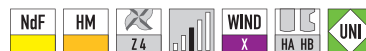
FOLLOW THE KERFOLG PROGRAM FOR YOUR MACHINING OPERATION

KERFOLG

END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	d mm	Z
A40433	20,40	12,00	3	50	9	3	4
A40434	20,40	12,00	4	50	11	4	4
A40435	20,40	12,00	5	50	13	6	4
A40436	20,40	12,00	6	50	16	6	4
A40438	30,90	18,00	8	60	20	8	4
A404310	45,20	28,00	10	75	25	10	4
A404312	64,90	39,00	12	75	30	12	4
A404316	137,90	82,00	16	100	36	16	4
A404320	165,50	100,00	20	100	45	20	4

KERFOLG

END MILLS WITH VARIABLE PITCH Z4



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	ch 45° mm	d mm	Z
A405304	20,50	12,00	4	57	11	0,15	6	4
A405306	20,50	12,00	6	50	16	0,20	6	4
A405308	34,50	19,00	8	60	20	0,20	8	4
A405310	47,30	28,00	10	75	25	0,30	10	4
A405312	65,60	39,00	12	75	30	0,30	12	4
A405316	144,80	85,00	16	100	36	0,40	16	4

KERFOLG

NEW

**VARIABLE PITCH CORNER RADIUS
END MILL WITH CHIP BREAKER
FOR TROCHOIDAL MILLING Z5**

CHIP BREAKERS

CUTTING DEPTH 5XD

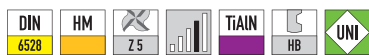
5 CUTTING EDGES

CORNER RADIUS

**UNEQUAL DISTRIBUTION OF
CUTTING EDGES HPC**



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	r mm	d3	Z
A40636	93,84	56,00	6	75	34	1	5,8	5
A40638	108,24	65,00	8	85	44	1	7,7	5
A406310	149,40	90,00	10	100	55	1,5	9,7	5
A406312	185,13	111,00	12	115	65	1,5	11,6	5
A406316	376,32	226,00	16	140	86	1,5	15,5	5
A406320	649,69	312,00	20	163	108	1,5	19,5	5



END MILLS Z4



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	d mm	Pezzi	Z
A4045SET6	225,00	115,00	6	60	16	6	10	4
A4045SET8	489,00	95,00	8	60	20	8	5	4
A4045SET10	240,00	108,00	10	75	25	8	5	4
A4045SET12	954,90	175,00	12	75	30	12	5	4

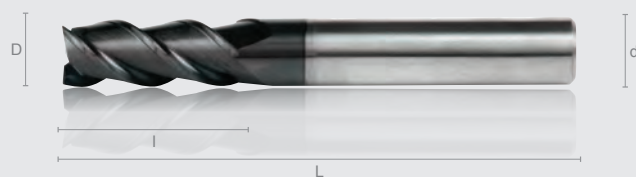
END MILLS Z3



SPECS



MATERIALS



CODE	L22	HT	D mm	L mm	I mm	d mm	Pezzi	Z
A4035SET5	206,00	98,00	5	50	13	6	10	3
A4035SET6	246,30	105,00	6	50	16	6	10	3
A4035SET8	490,00	95,00	8	60	20	8	5	3
A4035SET10	296,90	145,00	10	75	25	10	5	3
A4035SET12	348,20	155,00	12	75	30	12	5	3

KIT TOOL BOX FOR PROFESSIONALS

Kit tool box composed of:

HAND TAPS HSS DIN 352 / M3-M12

- For cutting internal threads
- Tested industrial quality

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

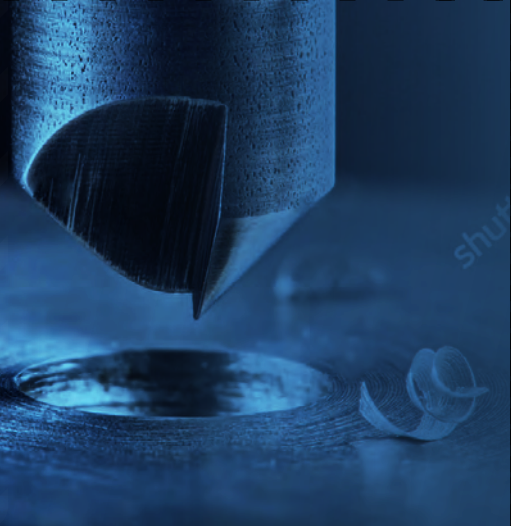
- 100% defined cutting geometric
- Optimized chip removal
- Tested and reliable industrial quality

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

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

CODE	L22	HT
N5225SET3	243,40	99,00





KERFOLG

COUNTERSINKS
VARIABLE PITCH A 90°

€ 150 ,00

A6158SET

Assortment 5
countersinks variable
pitch Ø 6,3 - 10,4 - 16,5 -
20,5 - 25



SPECS



MATERIALS



KERFOLG

COUNTERSINKS 90° Z3

€ 95 ,00

A6125SETA6115

Set of 5 countersink
90° TiN
Ø 8 - 12,4 - 16,5 - 20,5 - 25



SPECS



MATERIALS



GRANLUND

COUNTERSINKS
A 90° Z3

€ 165 ,00

A6109SET

5 countersinks kit 200T
Granlund Ø 10,4 - 16,5 -
20,5 - 25 - 30



SPECS



MATERIALS



KERFOLG

COUNTERSINKS 90° Z3

€ 79 ,00

A6125SETA6110

Set of 5 countersink 90°
Ø 8 - 12,4 - 16,5 - 20,5 - 25



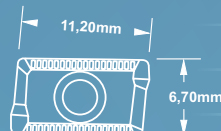
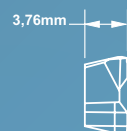
SPECS



MATERIALS



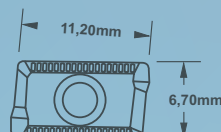
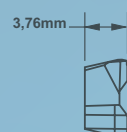
APKT 1003



MR

Medium Cutting

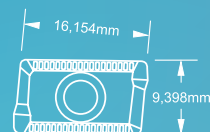
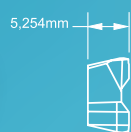
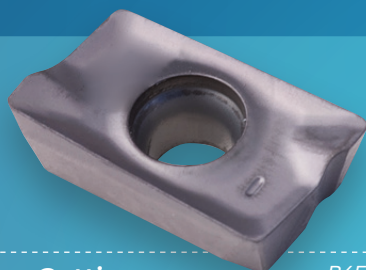
B4E21



WRK

B4E24

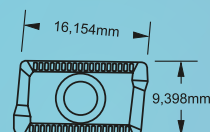
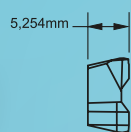
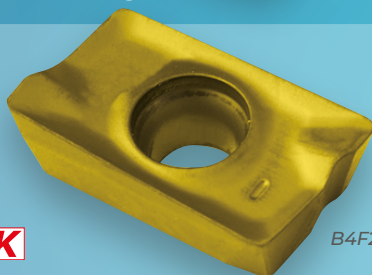
APKT 1604



MR

Medium Cutting

B4F21



WRK

B4F24



GEOMETRY AND CUTTING CONDITIONS

Description	Grade	CODE	L22	HT	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MR APKT 1003PDR - MR	PT25	B4E2110MRPT25	44,90	7,45	○	○	●			●	●			○
MR APKT 1003PDTR - MR	PT30	B4E2110MRPT30	43,14	6,57	○	○	●			●	●			○
MR APKT 1003PDR - MR	PT35	B4E2110MRPT35	43,14	6,57	●	●	○	○	○	○	○		○	
MR APKT 1003PDR - MR	PT35	B4E2410MRPT35	9,50	4,75	●	●	○	○	○	○	○		○	
MR APKT 1604PDR - MR	PT25	B4F2116MRPT25	40,42	9,21	○	○	●			●	●			○
MR APKT 1604PDR - MR	PT30	B4F2116MRPT30	45,55	7,78	●	●	●			●	○			○
MR APKT 1604PDR - MR	PT35	B4F2116MRPT35	45,55	7,78	●	●	○	○	○	○	○		○	
MR APKT 1604PDR - MR	PT35	B4F2416MRPT35	42,66	6,33	●	●	○	○	○	○	○		○	

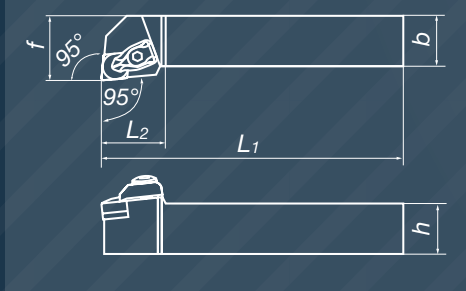
EXTERNAL TURNING TOOLHOLDERS



CN...

Turning and facing works

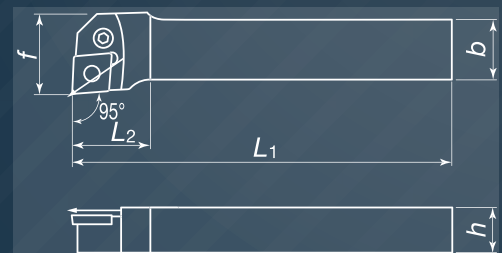
B0U10



CN...

Turning and facing works

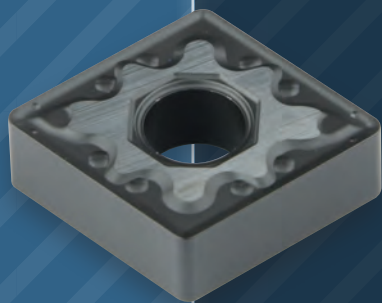
B0U13



NEGATIVE INSERTS

	CODE	L22	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Shim screw	Spring pin
DCLNR/L	B0U10R2020K12	80,20	DCLNR 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
	B0U10R2525M12	84,10	DCLNR 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
	B0U10L2020K12	80,20	DCLNR 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
	B0U10L2525M12	84,10	DCLNR 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
	CODE	L22	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
PCLNR/L	B0U13L1616H12	199,50	PCLNR 1616 H12 IK G1/8	16	16	20	26,1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
	B0U13L2020K12	210,00	PCLNR 2020 K12 IK G1/8	20	20	25	27,4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
	B0U13L2525M12	225,75	PCLNR 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
	B0U13R1616H12	199,50	PCLNR 1616 H12 IK G1/8	16	16	20	26,1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
	B0U13R2020K12	210,00	PCLNR 2020 K12 IK G1/8	20	20	25	27,4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
	B0U13R2525M12	225,75	PCLNR 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254

C SHAPE



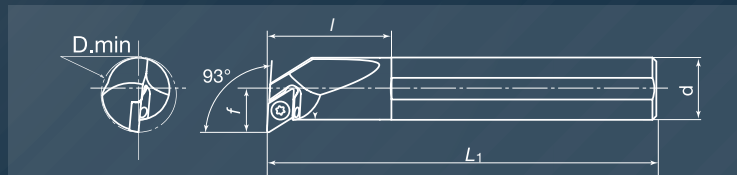
	Description	Grade	CODE	L22	P	M	K	N	S	H
FINISHING	FF CNMG 120404EN-FF	1010	B0C57CNFF10	9,53	●	●	●			
	FF CNMG 120408EN-FF	1010	B0C57CNFF11	9,53	●	●	●			
	CSF CNMG 120404-CSF	4115	B0C58CNCFS11	9,53	●	○				
	CSF CNMG 120404-CSF	4125	B0C58CNCFS12	9,53	●	○				
	CSF CNMG 120408-CSF	4115	B0C58CNCFS13	9,53	●	○				
	CSF CNMG 120408-CSF	4125	B0C58CNCFS14	9,53	●	○				
MEDIUM CUTTING	CM CNMG 120404-CM	4115	B0C51CNCM10	9,38	●	○				
	CM CNMG 120404-CM	4125	B0C51CNCM11	9,38	●	○				
	CM CNMG 120408-CM	4115	B0C51CNCM12	9,38	●	○				
	CM CNMG 120408-CM	4125	B0C51CNCM13	9,38	●	○				
	CM CNMG 120412-CM	4135	B0C51CNCM14	9,38	●	○				
	CM CNMG 120408-CM	3120	B0C51CNCM20	9,53	○		●			
	CM CNMG 120412-CM	4115	B0C51CNCM15	9,38	●	○				
	CM CNMG 120412-CM	4125	B0C51CNCM16	9,38	●	○				
	CM CNMG 120412-CM	4135	B0C51CNCM17	9,38	●	○				
	CM CNMG 120412-CM	3120	B0C51CNCM21	9,53	○		●			
	SA CNMG 120404-SA	5110	B0C59CNSA05	12,36		○			●	
	SA CNMG 120408-SA	5110	B0C59CNSA06	12,36		○			●	
ROUGHING	SA CNMG 120404-SA	5115	B0C59CNSA07	12,36		○			●	
	SA CNMG 120408-SA	5115	B0C59CNSA08	12,36		○			●	
	SM CNMG 120404-SM	2125	B0C52CNSM10	9,38	○	●				
	SM CNMG 120408-SM	2125	B0C52CNSM11	9,38	○	●				
	CR CNMG 120408-CR	4115	B0C53CNCR08	9,53	●	○				
	CR CNMG 120412-CR	4125	B0C53CNCR09	9,53	●	○				
	CMR CNMG 120408-CMR	3120	B0C54CNCMR20	9,53	○		●			
	CMR CNMG 120412-CMR	3120	B0C54CNCMR21	9,53	○		●			

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



Internal
turning

B1U25

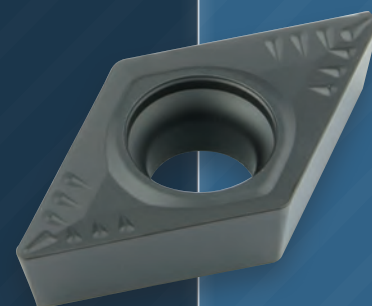


	CODE	L22	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
A...SDUCR/L	B1U25R1007	94,50	A10K SDUCR 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
	B1U25R1207	99,75	A12L SDUCR 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
	B1U25R1607	108,15	A16Q SDUCR 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
	B1U25R2011	119,70	A20R SDUCR 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
	B1U25R2511	149,10	A25R SDUCR 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
	B1U25R3211	217,35	A32S SDUCR11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
	B1U25R4011	295,05	A40T SDUCR 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
	B1U25L1007	94,50	A10K SDUCL 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
	B1U25L1207	99,75	A12L SDUCL 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
	B1U25L1607	106,05	A16Q SDUCL 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
	B1U25L2011	119,70	A20R SDUCL 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
	B1U25L2511	149,10	A25R SDUCL 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
	B1U25L3211	217,35	A32S SDUCL 11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
	B1U25L4011	295,05	A40T SDUCL 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

POSITIVE INSERTS

	Description	Grade	CODE	L22	P	M	K	N	S	H
FINITURA FINISHING	FFP DCMT 070204-FFP	1010	B1D55DCFFP05	7,33	●	●	○			
	FFP DCMT 11T304-FFP	1010	B1D55DCFFP06	7,33	●	●	○			
	CFP DCMT 070202-CFP	4125	B1D56DCCFP10	6,58	●	○				
	CFP DCMT 070204-CFP	4115	B1D56DCCFP14	6,99	●	○				
	CFP DCMT 070204-CFP	4125	B1D56DCCFP11	6,58	●	○				
	CFP DCMT 11T302-CFP	4125	B1D56DCCFP15	8,91	●	○				
	CFP DCMT 11T304-CFP	4125	B1D56DCCFP12	8,39	●	○				
	CFP DCMT 11T308-CFP	4125	B1D56DCCFP13	8,39	●	○				
	CMP DCMT 070204-CMP	4125	B1D57DCCMP10	6,58	●	○				
	CMP DCMT 070204-CMP	4135	B1D57DCCMP11	6,58	●	○				
MEDIUM CUTTING	CMP DCMT 070208-CMP	4125	B1D57DCCMP18	6,99	●	○				
	CMP DCMT 070208-CMP	4135	B1D57DCCMP19	6,99	●	○				
	CMP DCMT 11T304-CMP	4115	B1D57DCCMP12	8,39	●	○				
	CMP DCMT 11T304-CMP	4125	B1D57DCCMP13	8,39	●	○				
	CMP DCMT 11T304-CMP	4135	B1D57DCCMP14	8,39	●	○				
	CMP DCMT 11T308-CMP	4115	B1D57DCCMP15	8,39	●	○				
	CMP DCMT 11T308-CMP	4125	B1D57DCCMP16	8,39	●	○				
	CMP DCMT 11T308-CMP	4135	B1D57DCCMP17	8,39	●	○				
	SMP DCMT 070204-SMP	2125	B1D58DCSMP10	6,58	○	●				
	SMP DCMT 070208-SMP	2125	B1D58DCSMP13	6,99	○	●				
	SMP DCMT 11T304-SMP	2125	B1D58DCSMP11	8,39	○	●				
	SMP DCMT 11T304-SMP	2135	B1D58DCSMP14	8,91	○	●			○	
	SMP DCMT 11T308-SMP	2125	B1D58DCSMP12	8,39	○	●			○	
	SMP DCMT 11T308-SMP	2135	B1D58DCSMP15	8,91	○	●			○	
	AFP DCGT 070201FN-AFP	NL10	B1D59DCAFP15	11,66			○	●	○	
	AFP DCGT 070202FN-AFP	NL10	B1D59DCAFP10	11,08			○	●	○	
	AFP DCGT 070204FN-AFP	NL10	B1D59DCAFP11	11,08			○	●	○	
	AFP DCGT 070208FN-AFP	NL10	B1D59DCAFP16	11,66			○	●	○	
	AFP DCGT 11T302FN-AFP	NL10	B1D59DCAFP12	12,96			○	●	○	
	AFP DCGT 11T304FN-AFP	NL10	B1D59DCAFP13	12,96			○	●	○	
	AFP DCGT 11T308FN-AFP	NL10	B1D59DCAFP14	12,96			○	●	○	

D SHAPE



KERFOLG Eye Trim 2

PRESETTING EYE TRIM II

Natural granite

NO thermal expansion coefficients



AXES POSITIONING SYSTEM

The NEW axes positioning system helps you to frame the cutting edge to be measured in the center of the screen quickly and easily.

NEW TFT COLOUR LCD

The NEW TFT colour LCD 7" LED display makes the presetting experience simple and complete

NEW FIRMWARE

for machine management, high performances guaranteed

INTERCHANGEABLE SPINDLE HOLDERS

NO adapters
NO coupling errors

€ 5.150 ,00

ISO 40 - C471540

€ 5.150 ,00

ISO 50 - C471550

€ 6.270 ,00

HSK 63 - C471563



FEATURES

X axis measurement resolution 0.001 mm,
Z axis 0.001 mm

Management electronics with 32-bit RISC processor and integrated vision system

C-MOS sensor, 5x5mm framed image area, 20X magnification

Telecentric lens and LED illuminator

7" LCD color TFT graphic display (image 86x150)

Full Touch Screen for all presetter functions

Software with menus represented by icons

Lifetime free software update

Display radius / diameter, mm / inch, abs / incr.

Possibility of measurement with autocollimation

on the whole screen

Automatic calculation cycle of insert radius and angle

Management nr. 9 digital machine origins

Management nr. 9 tool tables, each consisting of 99 tools

Memorization for each tool offset of: T, Lx, Lz, insert radius

Data storage on flash memory

Connection with PC via RS-232 port and electronics BIOS update

24Vdc power supply with external power supply supplied as standard

TD236 for managing backup and restore functions of machine origins and tool lists

OPTIONAL



**Additional
ISO / BT / HSK / VDI
interchangeable
spindle holders**



**Mini-label
printer**



Table



IMG CLAMPING SYSTEM

The IMG self-centring vices can be easily transformed into fixed or double clamping vices. The vices have a fully protected operating screw with a patented telescopic system. This innovation makes it possible to avoid having to remove the jaws in order to find the clamping position. Parallels with quick change Clak System.

Jaws with Sintergrip clamping inserts for minimum workpiece clamping depth without pre-machining (jaw width 125 mm).

Interface for zero point systems APS / WPS and Lang 96 mm as standard.

STANDARD EQUIPMENT

1 Wrench

Jaws

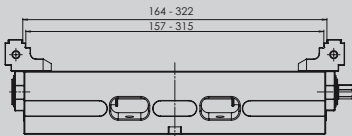
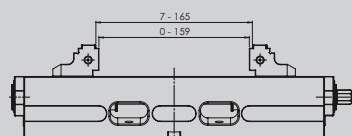
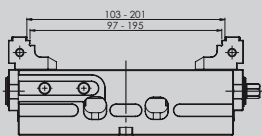
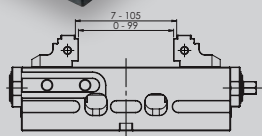
Sintergrip inserts

Clamping keys to be ordered separately

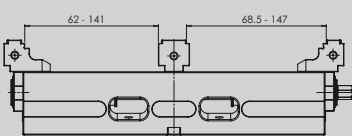
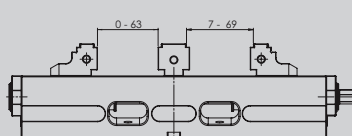
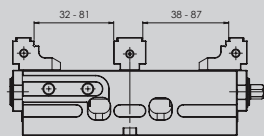
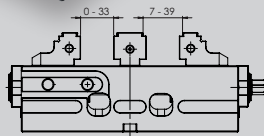


- Highly precise self-centring clamping with maximum repeatability
- Compact design for greater accessibility and very large drainage slots for chippings
- The clamping force (70 Nm) combined with the patented Sintergrip system guarantees high performance

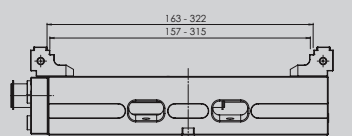
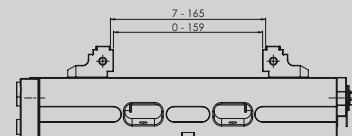
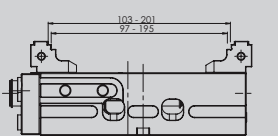
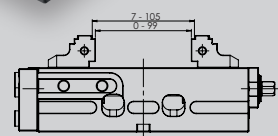
SELF-CENTRING



DOUBLE CLAMPING



FIXED



01

02

CODE	L22	HT	Description	Drawing
C6381125220	4593,00	1430,00	Vice IMG 125-220 with sintergrip jaws STD	01
C6381125320	4992,00	1790,00	Vice IMG 125-320 with sintergrip jaws STD	02
C6381125	227,00	204,00	Double clamping jaws IMG 125	-
C6381PIASTRA	82,00	73,00	Retainer plate IMG 125	-
C638112H6	27,00	24,00	Pair of positioning keys MG 12h6	-
C638114H6	49,00	44,00	Pair of positioning keys MG 14h6	-
C638116H6	49,00	44,00	Pair of positioning keys MG 16h6	-
C638118H6	49,00	44,00	Pair of positioning keys MG 18h6	-
C638120H6	49,00	44,00	Pair of positioning keys MG 20h6	-
C638122H6	49,00	44,00	Pair of positioning keys MG 22h6	-

INCREASED
TOOL LIFE

FASTER
CUTTING SPEED

GREATER TOOL
PERFORMANCE

**INCREASED
PRODUCTIVITY**



SK
40

SK
50

G 2.5
25.000
rpm

AT3
TAPER



BT
40

BT
50

G 2.5
25.000
rpm

AT3
TAPER



HSK
63

HSK
100

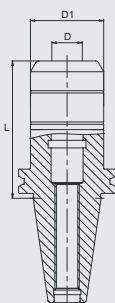
G 2.5
25.000
rpm

CODE	L22	HT	SK	ER	D mm	L mm	Ring nut
C0018416070	88,62	70,00	40	16	28	70	ER16
C0018416100	96,04	87,00	40	16	28	100	ER16
C0018416160	117,11	105,00	40	16	28	160	ER16
C0018416200	198,34	179,00	40	16	28	200	ER16
C0018420070	88,62	77,00	40	20	34	70	ER20
C0018420100	96,04	87,00	40	20	34	100	ER20
C0018425070	98,73	68,00	40	25	42	70	ER25
C0018425100	99,17	90,00	40	25	42	100	ER25
C0018425160	137,15	124,00	40	25	42	160	ER25
C0018425200	198,34	179,00	40	25	42	200	ER25
C0018432070	93,90	68,00	40	32	50	70	ER32
C0018432100	102,34	92,00	40	32	50	100	ER32
C0018432160	148,76	134,00	40	32	50	160	ER32
C0018432200	214,17	193,00	40	32	50	200	ER32
C0018440070	102,34	88,00	40	40	63	70	ER40
C0018440100	120,27	108,00	40	40	63	100	ER40
C0018440160	156,14	141,00	40	40	63	160	ER40
C0018516070	146,52	132,00	50	16	28	70	ER16
C0018516100	167,64	151,00	50	16	28	100	ER16
C0018516160	202,02	182,00	50	16	28	160	ER16
C0018525070	146,52	132,00	50	25	42	70	ER25
C0018525100	167,64	151,00	50	25	42	100	ER25
C0018525160	202,02	182,00	50	25	42	160	ER25
C0018532070	155,40	140,00	50	32	50	70	ER32
C0018532100	172,95	155,00	50	32	50	100	ER32
C0018532160	205,95	185,00	50	32	50	160	ER32
C0018540070	174,27	157,00	50	40	63	70	ER40
C0018540100	184,26	166,00	50	40	63	100	ER40
C0018540160	214,23	193,00	50	40	63	160	ER40

CODE	L22	HT	BT	ER	D mm	L mm	Ring nut
C1018416070	88,62	80,00	40	16	28	70	ER16
C1018416100	96,04	87,00	40	16	28	100	ER16
C1018416160	117,11	105,00	40	16	28	160	ER16
C1018425070	88,62	74,00	40	25	42	70	ER25
C1018425100	96,04	87,00	40	25	42	100	ER25
C1018425160	137,15	124,00	40	25	42	160	ER25
C1018432070	98,73	70,00	40	32	50	70	ER32
C1018432100	102,34	92,00	40	32	50	100	ER32
C1018432160	148,76	134,00	40	32	50	160	ER32
C1018440070	102,34	89,00	40	40	63	70	ER40
C1018516070	169,83	153,00	50	16	28	70	ER16
C1018516100	179,82	162,00	50	16	28	100	ER16
C1018516160	227,55	205,00	50	16	28	160	ER16
C1018525070	169,83	153,00	50	25	42	70	ER25
C1018525100	179,82	162,00	50	25	42	100	ER25
C1018525160	233,10	210,00	50	25	42	160	ER25
C1018532070	173,16	156,00	50	32	50	70	ER32
C1018532100	179,82	162,00	50	32	50	100	ER32
C1018532160	240,87	217,00	50	32	50	160	ER32
C1018540080	176,49	159,00	50	40	63	80	ER40
C1018540100	186,48	168,00	50	40	63	100	ER40
C1018540160	255,39	230,00	50	40	63	160	ER40

CODE	L22	HT	HSK	ER	D mm	L mm	Ring nut
C2014616100	125,66	106,00	63	16	28	100	ER16
C2014616130	135,96	122,00	63	16	28	130	ER16
C2014616160	139,95	125,00	63	16	28	160	ER16
C2014620100	131,84	115,00	63	20	34	100	ER20
C2014625100	131,84	102,00	63	25	42	100	ER25
C2014625130	146,26	132,00	63	25	42	130	ER25
C2014625160	150,38	135,00	63	25	42	160	ER25
C2014632100	132,87	110,00	63	32	50	100	ER32
C2014632130	162,44	137,00	63	32	50	130	ER32
C2014632160	167,89	151,00	63	32	50	160	ER32
C2014640120	149,35	130,00	63	40	63	120	ER40
C2014640130	164,80	148,00	63	40	63	130	ER40
C2014640160	186,43	168,00	63	40	63	160	ER40
C2014116100	172,78	156,00	100	16	28	100	ER16
C2014116130	191,86	173,00	100	16	28	130	ER16
C2014125100	179,44	161,00	100	25	42	100	ER25
C2014125130	198,22	179,00	100	25	42	130	ER25
C2014132100	183,38	165,00	100	32	50	100	ER32
C2014132130	198,22	179,00	100	32	42	130	ER32
C2014140120	196,10	177,00	100	40	63	120	ER40
C2014140130	212,00	191,00	100	40	63	130	ER40

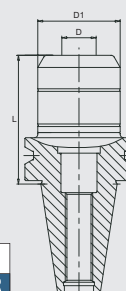
**POWER CHUCKS
DIN 69871 SK AD+B**



SK	SK	6 2.5	AT3
40	50	25.000	TAPER

CODE	L22	HT	SK	D mm	L mm	D1 mm
C002642090	233,00	199,00	40	20	90	48
C0026432100	246,00	210,00	40	32	100	68
C002652070	333,00	280,00	50	20	70	48
C002653295	352,00	298,00	50	32	95	68

**POWER CHUCKS
MAS 403 BT AD+B**



BT	BT	6 2.5	AT3
40	50	25.000	TAPER

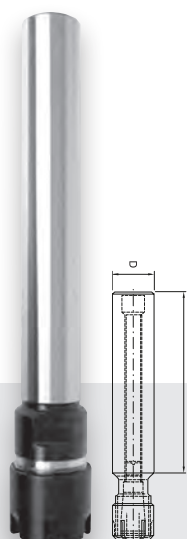
CODE	L22	HT	BT	D mm	L mm	D1 mm
C102642075	233,00	200,00	40	20	75	48
C102643290	246,00	210,00	40	32	90	68
C102652090	333,00	280,00	50	20	90	48
C102653295	352,00	298,00	50	32	95	68

TU-KOY

COLLET CHUCKS CYLINDRICAL SHANK

ER MINI
DIN 1835A

C3191



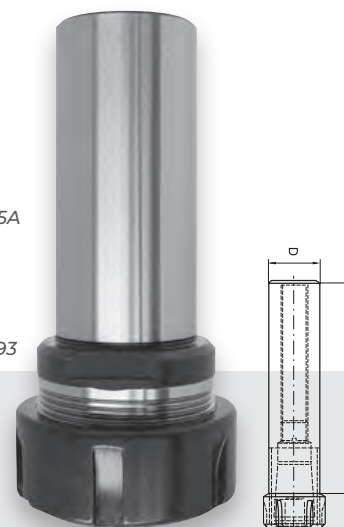
ER DIN 1835A
WITH FLAT
CYLINDRICAL
SHANK

C3192



ER DIN 1835A

C3193



CODE	L22	HT	ER	D mm	L mm	Ring nut
C31911112070	76,90	52,00	11 Mini	12	70	ER11
C31911116100	82,70	55,00	11 Mini	16	100	ER11
C31911612080	72,90	49,00	16 Mini	12	80	ER16
C31911616080	82,70	55,00	16 Mini	16	80	ER16
C31911616130	87,20	58,00	16 Mini	16	130	ER16
C31911620100	82,70	55,00	16 Mini	20	100	ER16
C31911620160	100,40	67,00	16 Mini	20	160	ER16
C31912016100	83,90	56,00	20 Mini	16	100	ER20
C31912020100	83,90	56,00	20 Mini	20	100	ER20
C31912020160	100,40	67,00	20 Mini	20	160	ER20
C31922525100	110,40	73,00	25	25	100	GER25
C31923225100	110,40	73,00	32	25	100	GER32
C31923232050	83,90	56,00	32	32	50	GER32
C31923232100	92,60	62,00	32	32	100	GER32
C31924040080	112,60	75,00	40	40	80	GER40
C31933225100	110,40	73,00	32	25	100	GER32

BASIC UNIFLEX



Suitable for medium alloy steels
on small sections



P	M	K	N	S	H	C
●	○	○	-	-	-	-

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

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

BASIC PLUS UNIFLEX



Suitable for medium alloy steels
on medium sections



P	M	K	N	S	H	C
●	○	○	-	-	-	-

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

Length mm	Tooth pitch 3/4	HT	Tooth pitch 4/6	HT
2450	A7015245034	18,00	A7015245046	18,00
2480	-	-	A7015248046	18,00
2590	-	-	A7015259046	19,00
2700	-	-	A7015270046	20,00
2750	-	-	A7015275046	20,00
2825	-	-	A7015282546	21,00
2845	A7015284534	21,00	A7015284546	21,00
2925	A7015292534	21,00	A7015292546	21,00
2945	A7015294534	21,00	-	-
2950	-	-	A7015295046	21,00
3010	A7015301034	22,00	A7015301046	22,00
3100	A7015310034	22,00	A7015310046	22,00
3120	A7015312034	22,00	A7015312046	22,00
3150	A7015315034	23,00	A7015315046	23,00
3180	A7015318034	23,00	A7015318046	23,00
3225	-	-	A7015322546	23,00
3270	A7015327034	23,00	A7015327046	23,00
3320	A7015332034	24,00	A7015332046	24,00
3370	-	-	A7015337046	24,00
3660	A7015366034	26,00	A7015366046	26,00



**ALL IN ONE
GREEN SAW**
free

GUABO

STANDARD-PRODUCTION BLADES

BASIC PERFORMANCE



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



P	M	K	N	S	H	C
●	○	○	○	-	○	-

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

Length mm	Tooth pitch 5/8	HT	Tooth pitch 6/10	HT	Tooth pitch 8/12	HT
2450	A7024245058	23,00	A70242450610	23,00	-	-
2500	A7024250058	23,00	A70242500610	23,00	-	-
2590	A7024259058	24,00	-	-	-	-
2600	A7024260058	24,00	-	-	-	-
2700	A7024270058	25,00	-	-	-	-
2750	A7024275058	25,00	A70242750610	25,00	A70242750812	25,00
2765	A7024276558	26,00	-	-	-	-
2825	A7024282558	26,00	A70242825610	26,00	-	-
2845	A7024284558	26,00	A70242845610	26,00	-	-
2925	A7024292558	27,00	-	-	-	-
2945	A7024294558	27,00	A70242945610	27,00	-	-
2950	A7024295058	27,00	A70242950610	27,00	A70242950812	27,00
3010	A7024301058	28,00	A70243010610	28,00	A70243010812	28,00
3120	A7024312058	28,00	A70243120610	28,00	-	-
3150	A7024315058	29,00	A70243150610	29,00	A70243150812	29,00
3180	A7024318058	29,00	-	-	-	-
3200	A7024320058	29,00	-	-	-	-
3320	A7024332058	30,00	A70243320610	30,00	-	-
3660	A7024366058	33,00	-	-	-	-

BASIC PLUS PERFORMANCE



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



P	M	K	N	S	H	C
●	○	○	○	-	○	-

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

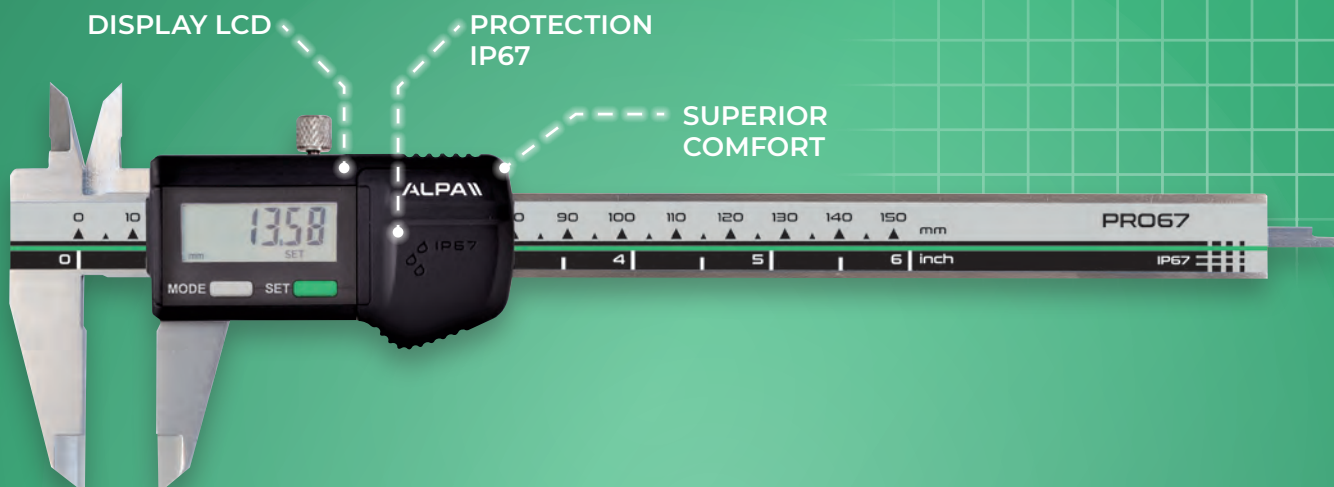
Length mm	Tooth pitch 2/3	HT	Tooth pitch 3/4	HT	Tooth pitch 4/6	HT
2450	-	-	A7021245034	23,00	A7021245046	23,00
2500	-	-	-	-	A7021250046	23,00
2590	-	-	-	-	A7021259046	24,00
2600	-	-	-	-	A7021260046	24,00
2650	-	-	-	-	A7021265046	25,00
2700	-	-	-	-	A7021270046	25,00
2750	-	-	A7021275034	25,00	A7021275046	25,00
2765	-	-	-	-	A7021276546	26,00
2825	-	-	-	-	A7021282546	26,00
2845	-	-	A7021284534	26,00	A7021284546	26,00
2950	-	-	A7021295034	27,00	A7021295046	27,00
3010	A7021301023	28,00	A7021301034	28,00	A7021301046	28,00
3100	-	-	A7021310034	28,00	-	-
3120	-	-	A7021312034	28,00	A7021312046	29,00
3150	-	-	A7021315034	29,00	A7021315046	29,00
3180	-	-	A7021318034	29,00	A7021318046	29,00
3200	-	-	A7021320034	29,00	-	-
3225	-	-	-	-	A7021322546	29,00
3320	-	-	A7021332034	30,00	A7021332046	30,00
3370	-	-	-	-	A7021337046	31,00
3505	-	-	-	-	A7021350546	32,00
3660	A7021366023	33,00	A7021366034	33,00	A7021366046	33,00
3900	-	-	-	-	A7021390046	35,00
4600	-	-	A7021460034	41,00	-	-

METROLOGY



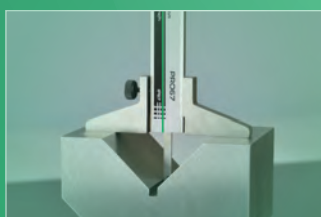
ALPA PRO67

DIGITAL CALIPERS IP67



0.01mm resolution - Digital caliper with electronics of a very high degree of protection against particles and liquids, even while in temporary submersion. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position.

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



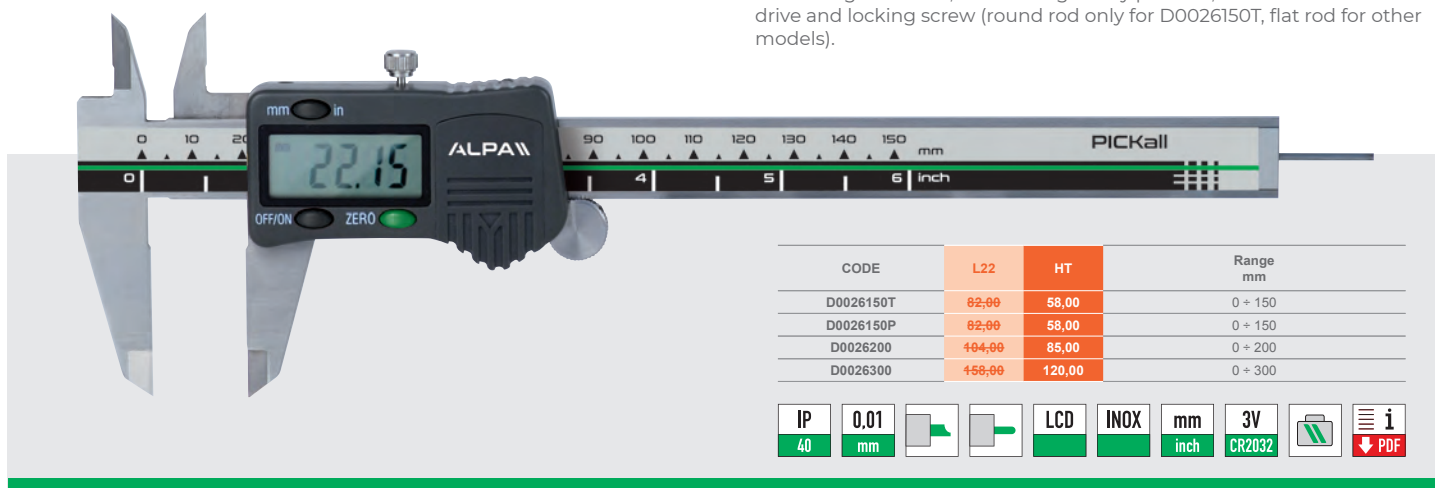
CODE	L22	HT	Range mm	Rod
D0007150T	444,00	95,00	0 + 150	●
D0007150P	444,00	95,00	0 + 150	■
D0007200	243,00	130,00	0 + 200	■
D0007300	273,00	175,00	0 + 300	■

IP 67	0,01 mm	LCD	INOX	mm inch	3V CR2032	PDF
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ALPA PICKall

DIGITAL CALIPERS

0.01mm resolution (ON/OFF) button and automatic switch ON, four measuring functions, zero setting at any position, vernier with wheel drive and locking screw (round rod only for D0026150T, flat rod for other models).

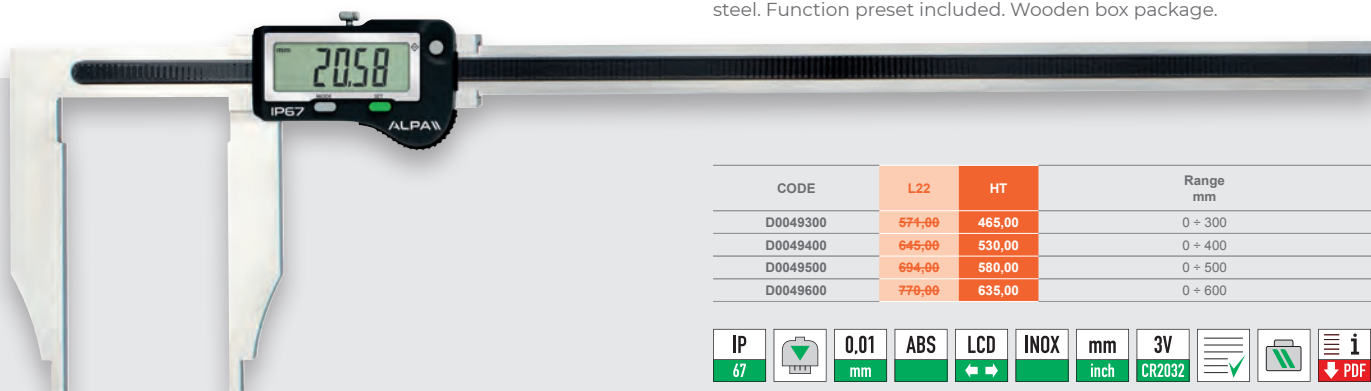


CODE	L22	HT	Range mm
D0026150T	82,00	58,00	0 + 150
D0026150P	82,00	58,00	0 + 150
D0026200	104,00	85,00	0 + 200
D0026300	158,00	120,00	0 + 300

IP 40	0,01 mm	LCD	INOX	mm inch	3V CR2032	PDF
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DIGITAL CALIPERS IP67

0,01mm resolution - Swiss technology with data output and protection IP67 (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod (SIS system), pausing after 20 min, when not in use, pause setting kept stored with max movement speed of 2,5 m / sec. Structure mechanics in tempered, rectified stainless steel. Function preset included. Wooden box package.



CODE	L22	HT	Range mm
D0049300	574,00	465,00	0 ÷ 300
D0049400	645,00	530,00	0 ÷ 400
D0049500	694,00	580,00	0 ÷ 500
D0049600	770,00	635,00	0 ÷ 600


SMALL HOLES DEPTH DIGITAL CALIPERS IP67

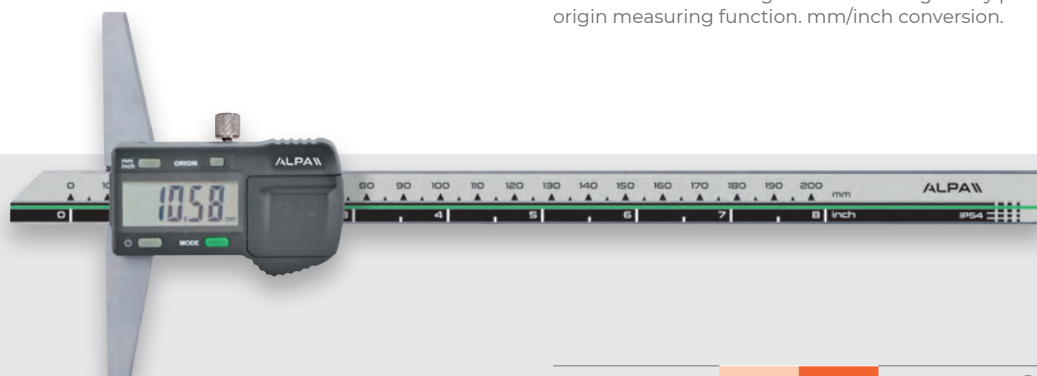
0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. Structure mechanics in tempered, rectified stainless steel. Hole diameter minimum from 6 mm. Provided with wooden case.



CODE	L22	HT	Range mm
D0111120	646,00	550,00	0 ÷ 120
D0111120S	646,00	550,00	0 ÷ 120

DIGITAL DEPTH CALIPERS IP54

0.01mm resolution - Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.



CODE	L22	HT	Range mm
D0021200	454,00	170,00	0 ÷ 200
D0021300	245,00	223,00	0 ÷ 300

ANALOG 3D DIAL TASTERS IP67

Highly accurate and versatile instrument for workstations, milling machines and electrical discharge machines.

Engineered to make it easy to position the axes of the mandrel precisely and to quickly determine the "zero" point of the workpiece.

Works on all axes (x - y - z).

The indicator always moves in the same direction, displaying the distance from the workpiece without having to make any calculations.

Easy to read dial, sturdy structure; it can be stored next to the machine along with other tools.



Shank $\varnothing$
20 mm



Indication accuracy
0,01 mm

€ 249,00

D30061

ALPA



Resolution mm 0,01

DIAL
INDICATORS $\varnothing$ 58



D2513IDR100

FLEXIBLE MAGNETIC
DIAL INDICATOR STANDS



D2512MEC100

FLEXIBLE MAGNETIC
DIAL INDICATOR STANDS



D2516MEC80

JOINTED MAGNETIC
KEY SWITCH HOLDER

					D2513IDR100		D2512MEC100		D2516MEC80		
			L22		264,00		229,00		442,00		
			HT		175,00		175,00		90,00		
CODE	Excursion mm	Resolution mm			+	STANDS					
D235110	10	0,01	96,00	32,00	DIAL INDICATORS	182,00		182,00		106,00	
D235125	25	0,01	87,00	66,00		217,00		217,00		140,00	
D235130	30	0,01	95,00	74,00		224,00		224,00		147,00	

ALPA's OFFICIAL PARTNER



BOWERS



FAST ACTION DIGITAL MICROMETERS BLUETOOTH - IP67

Fast action gun of high repeatability ideal for series checks.
Electronic IP67 with 3 pre-set, tolerance, min/max.
Contacts in hard metal. Measurement of holes starting from Ø25 mm.

Compositions in a wooden case complete with calibration rings.
UKAS calibration certificates of micrometers and rings.

CODE	L22	HT	Range mm	Depth mm	Accuracy µm	Ø ring mm
D1276025035	4.948,00	1576,00	25 ÷ 35	66	4	35
D1276035050	4.996,00	1617,00	35 ÷ 50	80	4	35
D1276050065	2.044,00	1622,00	50 ÷ 65	80	5	65
D1276065080	2.044,00	1622,00	65 ÷ 80	80	5	65
D1276080100	2.473,00	1730,00	80 ÷ 100	85	5	80



ROCKWELL HARDNESS TESTERS



ROCKWELL scale measurement on ferrous materials

Testing max height 175 mm

Depth capacity 165 mm

Cast iron support structure

N. 1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N. 1 flat surface with V-shaped adapter to measure cylindrical objects

HYDRAULIC SYSTEM

Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for ROCKWELL A, B, and C scales

€ 1.520 ,00

D723001



EQUIPMENT

n°1 Indenter with diamond cone

n°1 Ball indenter Ø 1/16"

n°5 Sphere di ricambio

n°1 HRC 20-30 specimen

n°1 HRC 60-70 specimen

n°1 HRB 20-30 specimen

Rockwell Scales:	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,
Initial Test Force:	98.07N (10kg), the allowed tolerance: ±2.0%
Total Test Force:	588.4N (60kg), 980.7N (100kg), 1471N (150kg), the allowed tolerance: ±1.0%
Specifications of the indenter:	Diamond Rockwell indenters
Ball indenters:	Ø 1.587 5mm
The max height of the specimens:	175 mm
The distance from the center of the indenter to the instrument body:	165 mm
The total dimension of the tester (length x width x height):	546 x 182 x 755 mm
The total weight of the tester:	78kg. or so
Max. Height Of Specimen:	175 mm
Instrument Throat:	165 mm

LUBRICANTS



HIGH LUBRICITY BACTERICIDE-FREE EMULSIFIABLE COOLING LUBRICANT FOR HEAVY DUTY MACHINING



*Excellent compatibility with water
hardnesses from 5 to 50 ° f*

Excellent lubricating and greasing power

Very high detergency

Long emulsion life

*Excellent anti-foaming capacity
even at high pressures*

High protective action on machine and parts

*Excellent safety profile and very high
compatibility with operators*



UNITEC SL 550 EP
heavy duty machining

APPLICATIONS	K	INOX	P <850	P <1200	Al	Mg	Cu	Ti	Recommended concentration
Grinding	•	••	••	••	••	•	•	••	3 - 4 %
Turning	•••	••	•••	••	••	•	••	•	5 - 6 %
Drilling	•••	••	••	••	•••	••	••	••	6 - 8 %
Drilling, boring	•••	••	••	••	•••	•	•	•	7 - 10 %

CODE	L22	HT	Quantity L	Refractometric factor	Density DIN 52757 Kg/L	pH (5%) DIN 51369	Storage temperature °C
H0030200	4.470,00	1175,00	200	1,1	0,963	9,3	5 - 40

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	da 0,7 a 8	Base
H361812	4.469,00	1290,00	1 - 10 %	1600	da 0,7 a 8	Complete



LITEC Waylube

SLIDEWAY OILS

WAYLUBE EP slideway oil is made from selected oils and special zinc-free additives that give a high adhesion capacity and size to the lubricating film that increases the performance of the product.

The excellent adhesion capacity of the WAYLUBE EP slideway oil can efficiently lubricate both horizontal and vertical slideways.

The EP additives ensures that WAYLUBE slideway oil provides lubrication even under high loads and in oil-loss and oil circulation lubrication systems.

ADVANTAGES AND USES:

- High adhesion lubricating film
- Hydrodynamic friction coefficient
- Suitable for lubricating machine tool slideways
- Adheres both in horizontal and vertical applications
- Suitable for oil-loss and oil circulation lubrication
- Withstands high loads
- Excellent for slow and heavily loaded rolling bearings

WAYLUBE passes the CINCINNATI MILACRON P47, P50 and P53 tests. Classification: ISO-L-HG

CODE	L22	HT	L	Appearance	Viscosity at 40°C ASTM D445 cSt	Viscosity index	Density DIN 52757 kg/L	Flash point ASTM D92 °C	Pour point °C	Storage temperature °C
H201532B1	463,00	130,00	20	Yellow	32	100	0,870	>220	-20	da 10 a 40
H201568T	42,20	33,00	5	Yellow	68	101	0,880	>220	-21	da 10 a 40
H201568B1	146,00	118,00	20	Yellow	68	101	0,880	>220	-21	da 10 a 40
H201568F	1.346,00	1072,00	200	Yellow	68	101	0,880	>220	-21	da 10 a 40
H2015220B1	465,00	130,00	20	Yellow	220	101	0,895	>230	-10	da 10 a 40
H2015220F	4.543,00	1210,00	200	Yellow	220	101	0,895	>230	-10	da 10 a 40

LITEC Tap Mitic

HIGH PERFORMANCE NEAT CUTTING OILS

ADVANTAGES:

- High lubricity
- Extraordinary ability to adhere to tools
- Excellent adhesion to the workpiece
- Exceptional EP properties
- Protects the cutting edge from corrosion
- Prevents built up edge formation



Appearance	Dark amber
Viscosity at 40°C ASTM D445 cSt	>250
Density DIN 52757 kg/L	1,22
Flash point ASTM D92 °C	>150
Storage temperature °C	from 10 to 40

CODE	L22	HT	Quantity	CODE	L22	HT	Quantity
H13200,5	29,00	17,00	0,5 L	H13205	496,00	99,00	5 L

LTEC

Metalworking lubricants



LTEC Protex NS 80H

RUST PREVENTIVE OILS

ADVANTAGES:

- Protective product based with high quality standards
- Excellent degreasing properties and "dewatering" effect
- ASTM B117 with 90 hours of resistance
- Protection capacity for 15 months in the case of detachment inside
- Protection capacity for 9 months in the case of detachment outside

Appearance	Amber
Viscosity ASTM D445 at 40°C cSt	1,8
Flash point COC C	64
Pour point C	-24
Specific weight at 15°C kg/L	0,820
Protection	15 months (indoor) 9 months (outdoor)

CODE	L22	HT	L	Package
H211520	476,00	150,00	20	Can



PROTECTION

36 months indoor
24 months outdoor



LTEC

VCI PACKAGING

The LTEC VCI (Volatile Corrosion Inhibitor) bags have been designed to maximize the protection of machined components against rust or the formation of metal oxides during storage or transport. The LTEC VCI bags are compatible with the most common types of commercially available corrosion inhibitor oils and waxes.

ADVANTAGES:

- easy and inexpensive to use
- compatible with most corrosion inhibitors
- very long protection

CODE	L22	HT	pz	Dimensions mm	Thickness microns
H217010020X30	220,00	175,00	1600	200 x 300	100
H217010033X22	244,00	166,00	320	330 x 220 h 550	100
H217010044X33	205,00	164,00	150	440 x 330 h 820	100

HOW TO USE

- Fill the TOS 2.0 with an already mixed emulsion
- Place the dynamic float in the tank
- Connect suction hose (quick coupling) to the machine
- Press start
- The machine works by cycles of 1H (Aspiration) 2H (Standby the timing is WANTED. The machine must work this way to be efficient)
- The float in the tank is dynamic: it follows the emulsion level in the tank, aspirating the extraneous oils from the surface
- The aspired fluid (250lt / h) through a special vane pump * transports the liquid into the machine that already undergoes a first filtering - bag filter - to remove the chip
- Inside the TOS 2.0 the fluid (mix of emulsion and extraneous oils) rises in the tank of the machine from the bottom so as to avoid the production of foams.
- At this point, you will see the extraneous oil and sludge rising to the surface of the tub of our TOS, while the clean emulsion is re-introduced into the tank
- Once a month (it depends on how the tank in the machine has been dirty and contaminated) just download with a simple operation the contaminated oil accumulated on the surface of the TOS 2.0



GUARANTEED SAVINGS

**- 50%
LOWER EMULSION
CONSUMPTION**



*Dirty Emulsion
bad smell*

	WITHOUT TOS	WITH TOS
nr. machines	10	10
Machine's volume	500	500
draining per year	2	1
% emulsion	6,00 %	6,00 %
mwf price	€ 5,00	€ 5,00
mwf refract. factor	1,2	1,2
draining costs	€ 800,00	€ 400,00
drained emulsion cost	€ 3600,00	€ 1800,00
disposal cost	€ 3000,00	€ 1500,00
TOTAL	€ 7400,00	€ 3700,00

TRAMP OIL SEPARATORS

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

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

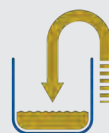
TOTALLY AUTOMATIC

NO SUPERVISION NEEDED

PLUG - PLAY - SET - GO

€ 3.099,00

H4000TOS2.0



250 L/h
nominal
flow rate
aspirated



105 L
capacity



MAX 60°
suction fluid
temperature



*Clean Emulsion
no smell*

45'

MRO



FIXED T-HANDLE HEXAGONAL WRENCHES

**fast
ID**

Tools with unique color for fast identification.

Quick choice High productivity for the operator.

FAST ID reduces time during low values manual operation and high operator costs.

Highly alloyed
chromium vanadium steel
58CrV5

Double oil hardening
treatment

Surface hardness
53 - 55 HRC

Resistance to torsion
higher than ISO 2936



CODE	L22	HT	● mm	a mm	L mm
E264302	43,45	8,90	2	65	130
E264302,5	43,45	8,90	2,5	65	130
E264303	43,45	8,90	3	75	150
E264303,5	43,30	8,90	3,5	75	150
E264304	43,80	9,20	4	90	180
E264304,5	44,10	9,40	4,5	90	180
E264305	44,40	9,60	5	105	210

Code	L22	HT	● mm	a mm	L mm
E264306	47,00	11,40	6	105	210
E264307	47,70	11,80	7	105	210
E264308	48,70	12,50	8	125	250
E264309	22,00	14,70	9	140	280
E264310	23,00	15,30	10	150	300
E264312	29,00	19,30	12	160	330
E264314	36,00	23,90	14	170	340



TORQUE WRENCHES CLICK-ACTION

Excellent resistance
due to being made from
satin chrome steel

Ideal for continuous use
thanks to the automatic
reset for the subsequent
closing operation

Mechanical torque wrenches **Premium Quality** with sliding square drive for bidirectional tightening. Torque adjustment is quick and precise thanks to a retractable jointed lever housed in the handle. Once the lever is removed, it is rotated until the required tightening torque is reached. The handle of the wrench rotates freely to avoid accidentally altering the preset torque.

Features:

- Sturdy structure in satin-chrome steel
- Ergonomic plastic handle for wrenches with max torque up to 400 Nm
- Phosphated steel handle for wrenches with max torque from 600 to 2000 Nm
- Thrust bearing for simple, fast and precise adjustments
- Acoustic release signal when the pre-set torque is reached
- Relief of effort when the pre-set torque is reached
- Automatic reset for the subsequent closing operation
- Graduated scale in Nm - Kgfm - Lbf.in - Lbf.ft
- Tightening accuracy $\pm 4\%$ according to the standard requirements of the ISO 6789 1-2017

Quick and precise torque adjustment thanks to a retractable jointed lever housed in the handle

CODE	L22	HT	Capacity Nm	Coupling	Resolution Nm	A mm	B mm	L mm	Weight kg	
E66990033	492,50	128,00	5 - 33	3/8"	1	32,5	12,5	403	0,7	1
E66990068	492,50	128,00	12 - 68	3/8"	2	32,5	15	475	1,0	1
E66990150	492,50	130,00	25 - 150	1/2"	5	48,5	15	587	1,7	1
E66990250	224,40	149,00	50 - 250	1/2"	10	48,5	15	605	2,3	1
E66990350	275,00	182,00	70 - 350	1/2"	10	51,5	15	776	3,0	1
E66990600	546,70	363,00	100 - 600	3/4"	20	62,1	25	860	5,5	1
E66990800	790,70	466,00	140 - 800	3/4"	20	62,1	25	930	6,5	1
E66991000	856,90	569,00	200 - 1000	1"	25	78,1	30	1025	9,7	1
E66992000	2.324,00	1543,00	500 - 2000	1"	50	88,1	30	1395	18	1



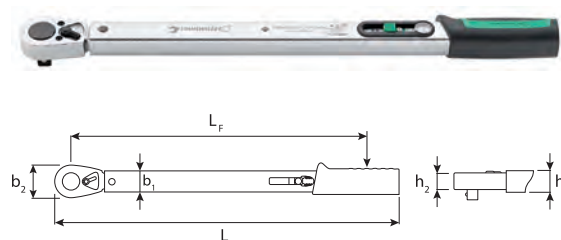
TORQUE WRENCHES WITH RATCHET MANOSKOP® 721 QUICK

E6708

Torque wrenches standard **MANOSKOP® 721 Quick Release** adjustment, double stop signal, perfect readability of the dual reading scale in N m/ft.lb thanks to the magnifying glass.

Body made from a sturdy steel tube, protects all delicate components, ergonomic handle of 2 components, equipped with practical soft inserts, resistant to oil, grease, fuel, brake fluids and phosphate based fluids. Deviation of indication $\pm 4\%$. Supplied with calibration ratio.

The torque wrenches are supplied with a UNI EN ISO 6789 1-2017 certificate.



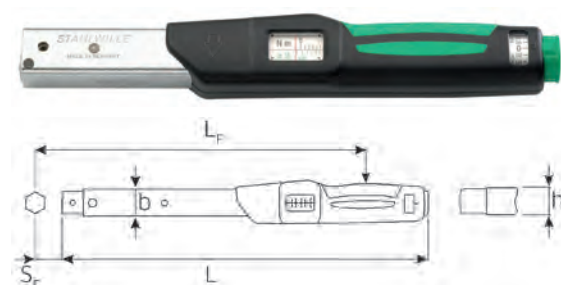
TORQUE WRENCHES WITH RATCHET MANOSKOP® 730N

E6710

Torque wrenches **MANOSKOP® 730N** with tool holder for male interchangeable insert tools, QuickRelease, safety lock, quick and precised settings thanks to QuickSelect adjustment.

Double stop signal, perfect readability of the dual reading scale chromatic difference of the directions in Nm/ftlb and ftlb/inch, possibility of left-handed clamping with reversible male Insert tools. Ergonomic handle of 2 components, equipped with practical soft inserts, resistant to oil, grease, fuel, brake fluids and phosphate based fluids. Deviation of indication $\pm 3\%$. Supplied with calibration ratio.

The torque wrenches are supplied with a UNI EN ISO 6789 1-2017 certificate.

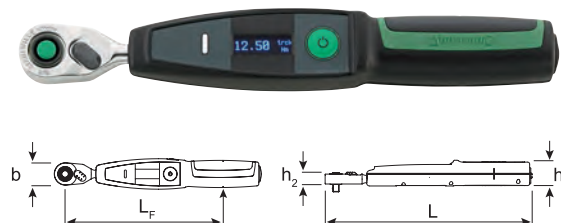


ELECTRONIC TORQUE WRENCHES SENSOTORK® 701

E6715

Electronic torque wrenches **SENSOTORK® 701** from a very slim and compact shape to pairs reduced from 1 Nm, unit of measure: N·m, cN·m, ft·lb, in·lb, Independent measurement of the point of attachment of the force, additional functions with SENSOMASTER 4 downloadable software for free, possibility to set the screwing situation, process evaluation screwing with coloured LED buzzer and vibration. Deviation of indication $\pm 4\%$. Equipped with calibration ratio. Standard equipment includes 1 lithium Battery 3,6 V, type 14500.

The torque wrenches are supplied with UNI EN ISO 6789 1-2017 certificate.



CODE	L22	HT	Capacity Nm	Coupling ■	Connection mm	b mm	b1 mm	b2 mm	h mm	h1 mm	h2 mm	L mm	LF mm	SF mm
E6708005	360,00	230,00	6 + 50	3/8"	-	-	28	27,5	-	23	14,5	352	293	-
E6708015	362,00	235,00	30 + 150	1/2"	-	-	28	41	-	23	18	452	387	-
E6708020	369,00	252,00	40 + 200	1/2"	-	-	28	41	-	23	18	483	418	-
E6708030	448,00	295,00	60 + 300	1/2"	-	-	28	44	-	23	27,5	552	486	-
E6710002	310,00	215,00	4 + 20	-	9 x 12	28	-	-	23	-	-	275	226	17,5
E6710005	318,00	220,00	10 + 50	-	9 x 12	28	-	-	23	-	-	330	280,5	17,5
E6710010	355,00	245,00	20 + 100	-	9 x 12	28	-	-	23	-	-	386	336	17,5
E6710012	376,00	260,00	25 + 130	-	14 x 18	28	-	-	23	-	-	421	379	25
E6710020	405,00	280,00	40 + 200	-	14 x 18	28	-	-	23	-	-	467	424	25
E6710040	599,00	400,00	80 + 400	-	14 x 18	28	-	-	23	-	-	607	564,5	25
E6710065	880,00	600,00	130 + 650	-	14 x 18	30,6	-	-	25,6	-	-	890	848	25
E6710066	904,00	620,00	130 + 650	-	22 x 28	30,6	-	-	25,6	-	-	911	900	55
E6710080	1.444,00	780,00	160 + 800	-	22 x 28	30,6	-	-	25,6	-	-	1178	1167	55
E6710100	1.425,00	970,00	200 + 1000	-	22 x 28	30,6	-	-	25,6	-	-	1363	1352	55
E6715002	520,00	325,00	1-20	1/4"	-	22,6	-	-	-	26	10	210	160	-

BIT-HOLDER SCREWDRIVERS STUBBY WITH INSERT SET



1/4" Hexagonal bit-holder screwdrivers DIN 3126 ISO 1173-C 6.3. Extra short stubby version with reversible ratchet and housing in the handle containing 7 assorted Inserts. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3		
WX4430	Insert bits 1/4"x25 slotted 4.5 - 6.5 mm		
WX4475	Insert bits 1/4"x25 Torx® T15 - T20		
CODE	L22	HT	Composition
E749078	49,32	9,90	bit-holder screwdrivers stubby with insert set

NON-REBOUND POLYURETHANE MALLETS



Mallets with replaceable polyurethane heads, head partially filled with metal pellets to absorb rebound, painted steel body and handle, anti-slip rubber grip

Red	Blue	L22	HT	Ø head mm	Weight g	
F539735	F539335	33,72	22,00	35	740	8
F539740	F539340	35,69	23,00	40	875	6
F539750	F539350	44,94	29,00	50	1250	5
F539760	F539360	49,38	32,00	60	1710	4



Extremely easy to handle thanks to the telescopic handle and the upper and side handles

Very strong as they are made of very thick polyethylene

TSA approved, allow the cases to be inspected by authorized airport personnel

WHEELED SERVICE TOOL CASES TSA APPROVED



SERVICE KIT 51 TOOLS



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

CODE	L22	HT	Composition
F715751	825,00	465,00	Wheeled service tool cases TSA approved



ELECTRICIANS KIT 45 TOOLS



WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2602/S9	Set of 9 coloured hex keys
WX3060	Universal pliers VDE 180 mm
WX3210	Bent nose pliers 1/2t VDE 200 mm
WX3430	Stripping pliers VDE 160 mm
WX3610	Diagonal cutting nippers VDE 125 mm
WX4770	Electricians scissors 155 mm
WX6600	LED torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4030	VDE slotted screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080	VDE screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4130	VDE Screwdrivers for Pozidriv screws PZ0x60 - PZ1x80 - PZ2x100 mm

CODE	L22	HT	Composition
F715945	840,00	475,00	Wheeled service tool cases for electricians TSA approved



AIR IMPACT WRENCHES

Twin Hammer mechanism model with composite/steel housing, rear exhaust and NBR coated handle.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

CODE	L001012
L22	420,00
HT	90,00
Square coupling	1/2"
Max screw Ø	M16
Max torque Nm	690
Rpm max	8500
Noise level dbA	97,5
Air inlet connector - consumption	1/4" NPT - 133 L/min
Vibration level (ISO 28927-2) m/sec ²	6,22
Weight Kg	1,94

REVERSIBLE AIR DRILLS

Reversible drill for forward or reverse operation. Composite material/steel grip and keyless chuck.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

CODE	L100606
L22	90,00
HT	68,00
Chuck capacity mm	6
Chuck fitting	3/8" UNF
Power Kw	0,23
Rpm max	2600
Noise level dbA	84
Vibration level m/s ²	0,4
Air inlet connector - consumption	1/4" NPT - 690 L/min
Weight Kg	0,6

REVERSIBLE AIR DRILLS

Reversible drill for forward or reverse operation. Composite material/steel grip and keyless chuck.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

CODE	L101010
L22	95,00
HT	69,00
Chuck capacity mm	10
Chuck fitting	3/8" UNF
Power Kw	0,68
Rpm max	1800
Noise level dbA	83
Vibration level m/s ²	0,5
Air inlet connector - consumption	1/4" NPT - 720 L/min
Weight Kg	1,1



LED TORCHES

High performance portable torches suitable for lighting workstations and general inspection work. The structure is covered with shock-resistant rubber (1.5 meters impact resistant) and is also resistant to splashing water (IPX4 protection).

Standard equipment includes a swivel hook, adjustable magnetic base up to 180°, a rechargeable 3.7V 2600 mAh lithium (Li-ion) battery and a battery charger with USB socket.



€ 29,50

N708101

Upper light
SMD LED 45 Lm
Autonomy max 13 hours



Main light
COB LED LOW 70 Lm
Autonomy max 10 hours



Main light
COB LED HIGH 240 Lm
Autonomy max 3 hours



WODEX

LED INSPECTION TORCHES

Led Inspection torches XPG-R5 Compact and ergonomic of high performance. Aluminum frame structure shock-resistant, adjustable beam by means of the revolving green ring in 4 operating ways: 100% - 75% - 50% - flash. Operating time about 2 hours.

CODE	Light output Lm	Beam distance m	Dimensions Ø x L mm	Weight with battery g
N707901	180	80	40 x 145	200



€ 15,00

N707901

TOOL CABINETS WITH MRO ASSORTMENTS



+ 66 TOOLS



WX1060/SE12 Combination wrenches

WX1010/SE8 Wrench set

WX4230/SE10 Slotted and Phillips screwdriver set



WX9505/SE6 Set of assorted tools

WX9512/SE12 Hacksaw and cutting nippers



WX9520/SE2 Long hexagonal L keys and STUBBY screwdriver

WX4950/SE6 Pin punch set

WX3750/SE4 Pliers and cutting nippers

WX2750/SE6 Hexagonal wrenches with handle



CODE	L22	HT	Composition
E8557066	*	1017,00	Tool cabinet Wodex WX9410/B7 + 66 tools

CODE	L22	HT	Composition
E8555066	*	740,00	Tool cabinet Grand Prix + 66 tools

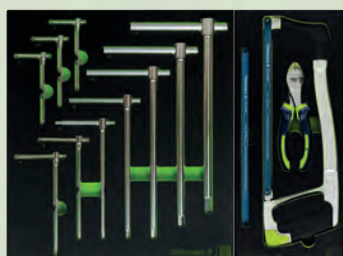
TOOL CABINETS WITH MRO ASSORTMENTS



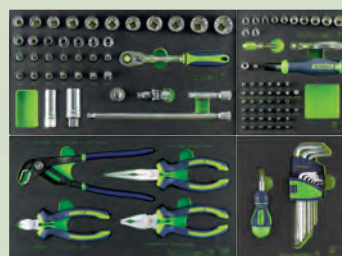
+ 154 TOOLS



WX1060/SE16 Combination wrenches
WX9503/SE2 Hammers and Mallets non-rebound



WX2700/SE10 Sliding T-handle hexagonal wrenches
WX9512/SE12 Hacksaws and cutting nippers



WX2180/SE39 Socket set 3/8"
WX2085/SE55 Socket set 1/4"
WX3750/SE4 Pliers and cutting nippers
WX9520/SE2 Long hexagonal L keys and STUBBY screwdriver



WX6620 Modular rechargeable LED torches
WX4210/SE6 Slotted and PH-PZ screws
WX9690/SE7 Cutting and measuring set



CODE	L22	HT	Composition
E8577154	-	1260,00	Tool cabinet Wodex WX9410/B7 + 154 tools

CODE	L22	HT	Composition
E8575154	-	1090,00	Tool cabinet Grand Prix + 154 tools

BENCH GRINDERS 230V



Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel to be ordered separately.

CODE	L22	HT	Grinding wheels mm	RPM	HP	W	Weight kg	Model column
N3102150	185,00	150,00	150 x 20 x 20	2800	0,5	375	8	-
N3102200	269,00	218,00	200 x 25 x 16/20	2800	0,9	675	16	A1

BENCH GRINDERS 400V



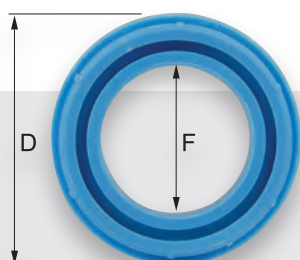
Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel to be ordered separately.

CODE	L22	HT	Grinding wheels mm	RPM	HP	W	Weight kg	Model column
N3104150	307,00	250,00	150 x 20 x 16	2800	0,5	375	11	A1
N3104200	466,00	325,00	200 x 25 x 20	2800	1	750	17	A2

BUSH FOR GRINDING WHEELS

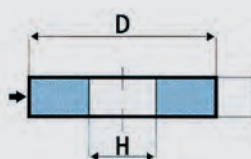
Plastic bush for grinding wheel bore.



CODE	N31212012	N31212016
L22	0,50	0,50
HT	0,25	0,25
D x F mm	20 x 12	20 x 16

GRINDING WHEELS IN GREEN SILICON CARBIDE

Suitable for machining metal carbides, brass and soft bronze, copper, aluminium and its alloys and non-metal materials.



CODE	G7204150202080	G7204200252080
L22	35,66	60,25
HT	18,90	31,90
D x T x H mm	150 x 20 x 32/20	200 x 25 x 32/20
Specification	2C80-K5V	2C80-K5V



COMBINED BENCH GRINDERS 230V



Industrial combined bench grinder (GRINDING WHEEL/BRUSH)
Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel and brushes to be ordered separately.

CODE	L22	HT	Grinding wheels mm	RPM	HP	W	Weight kg	Model column
N3106150	242,00	195,00	150 x 20 x 20 100 x 12 x 12	2800	0,5	375	7,5	-



COMBINED BENCH GRINDERS 400V



Industrial combined bench grinder (GRINDING WHEEL/BRUSH)
Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

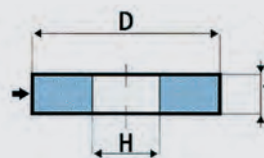
Grinding wheel and brushes to be ordered separately.

CODE	L22	HT	Grinding wheels mm	RPM	HP	W	Weight kg	Model column
N3108150	371,00	300,00	150 x 20 x 16	2800	0,5	375	12,1	A1
N3108200	495,00	400,00	200 x 25 x 20	2800	1	750	18,8	A2



GRINDING WHEELS IN WHITE ALUMINIUM OXIDE.

Suitable for machining steels and HSS steels, ferrous material in general and hard bronze.



P	M	K	N	S	H
●	●	○	○	○	○

CODE	G7208150202046	G7208150202060	G7208200252046	G7208200252060
L22	36,42	36,42	54,95	54,95
HT	19,00	19,00	29,00	29,00
D x T x H mm	150 x 20 x 32/20	150 x 20 x 32/20	200 x 25 x 32/20	200 x 25 x 32/20
Specification	8A46-M5V	8A60-M5V	8A46-M5V	8A60-M5V

Storm

Reliable and maximum power of category



TwistOil

Separating liquids and mixed solids without blocks



Features

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

Standard equipment

- 1 Polyester filter class M code N004520
- 1 Reduction terminal hose $\varnothing$ 80/50 mm code N00267050
- 1 Flexible hose PUR $\varnothing$ 50 x 3 m code N00285003
- 2 Antistatic rubber sleeve/nozzle $\varnothing$ 50mm code N002750
- 1 Conical lance anti-oil code N003550

Features

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

Standard equipment

- 1 Nylon washable filter code N004820
- 1 Flexible tube PUR $\varnothing$ 50mm x 3 m code N00285003
- 1 Anti-static rubber sleeve 50mm $\varnothing$ code N002750
- 1 Exhaust hose 35mm x 3 m $\varnothing$ code N00285003
- 1 Sphere valve 1" - 1/4 code N003210
- 1 Flat nozzle L 400 mm in metal code N003350
- 1 Conical nozzle in rubber anti-oil code N003550

CODE	L22	HT	Tank capacity L	Solids container L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Max. Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight Kg
N6015100	2.165,60	1550,00	100	-	230 - 50/60	3,6 - 4,5	250	9000	M	72	820 x 650 x 1640	71
N6005131	3.547,20	2800,00	130	40	230 - 50/60	2,4 - 3	230	5500	-	70	700 x 1180 x 1320 h	95



HAMMER DRILL and IMPACT DRIVER KIT

KIT

- 1 x M18 BID Impact driver M18 1/4" Hex
- 1 x M18 BPD Hammer drill M18TM
- 2 x M18 B4 Battery pack
- 1 x M12-18 C Charger
- 1 x Case



€ 369,00

N442018V + N4420BAT

No-load speed rpm	0-2000 / 0-2750
Impact rate bpm	0-2450 / 0-3450
Hitch	1/4" Hex
Max. torque Nm	180
Weight with battery pack EPTA kg	1,7 (M18 B4)

• M18 BID IMPACT DRIVER M18 1/4" HEX

- Compact impact driver with an overall length of just 140 mm
- Powerful 4-pole MILWAUKEE motor
- REDLINK™ intelligent electronics
- 1/4" Hex drive with quick change system

No-load speed rpm	0-450 / 0-1800
Keyless chuck mm	13
Chap. Max. drilling capacity wood / steel / masonry mm	38/13/16
Impact rate bpm	0-28,800
Max. torque Nm	60

• M18 BPD - HAMMER DRILL M18

- Compact hammer drill with an overall length of just 198 mm
- 4-pole MILWAUKEE motor
- REDLINK™ intelligent electronics
- Metal keyless chuck 13 mm
- 18 stage torque adjustment
- 3 mode selector for drilling, screwing and percussion drilling

MICRO GRINDER EMAX EVOLUTION

Suitable for deburring polishing and engraving. The ideal tool for mould makers. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The standard micro motor can be adjusted from 1,000 to 40,000 rpm and can be used with many types of attachments according to the needs of the user.

It is brushless, extremely lightweight, vibration-free and equipped with a button for switching it on and off directly on the workstation. Foot controller available on request.

40,000 rpm

Composition:

- Controller NE249 230
- Power supply cord
- Motor ENK-410S
- Attachment IR-310
- Collet 2.35 mm
- Collet 3.00 mm
- Handpiece stand
- Maintenance tools

Control unit technical data:

- Power supply 230 V 50-60 Hz
- Dimensions 130 x 524 x 97 mm
- Weight 2.3 Kg

CODE	G9430100
L22	2.300,00
HT	1495,00



MICRO GRINDER ESPERT 500

Suitable for all situations where high torque is required at a high RPM. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The high torque motor can be adjusted from 1,000 to 50,000 rpm and can be used with many types of attachment according to the needs of the user. Brushless, extremely silent and vibration-free for extremely precise work. Foot controller available on request.

50.000 rpm

Composition

- Controller NE249
- Power supply cord
- Motor ENK-50T-HR
- Attachment EHR-500
- Collet 2.35 mm
- Collet 3.00 mm
- Handpiece stand
- Maintenance tools

Technical data:

- Power supply 230 V 50-60 Hz
- Dimensions 172 x 230 x 94 mm
- Weight 2.6 Kg

CODE	G9450100
L22	(3.220,00)
HT	2093,00



LOCTITE**NEW****INSTANT FAST BONDING
ADHESIVE**

"Instant adhesive for the fast bonding of many materials, including metals, plastics and elastomers. Also suitable for porous materials such as wood, paper, leather and textiles. High heat resistance.

- Fixing time: 5 - 40 sec
 - Working temperature: -40 / +135°C
 - Low Viscosity
 - Transparent
 - Universal
- Increased temperature resistance compared to 401 and suitable for most materials"



CODE	J0012020	J0012500
L22	-	-
HT	25,50	421,00
Package	bottle	bottle
Quantity g	20	500

LOCTITE**BI-COMPONENT INSTANT
CYANOACRYLATE ADHESIVES**

Instant, two-component, gel adhesive. Suitable for most surfaces. Suitable for filling up to 5 mm clearance. Without halos. Designed for general maintenance.

- Fixing time: 90 - 150 sec
- Operating temperature: -40 / +80 °C
- Gel
- Colorless
- Filling games



CODE	J0118010
L22	23,70
HT	17,80
Package	Double cartridge
Quantity g	10

LOCTITE**CLEANER - DEGREASER**

Multipurpose cleaner. Suitable for preparing components for the application of an adhesive or a sealant, can be used with metal, glass, rubber and most plastic and painted surfaces. Leaves no residue.



CODE	J3680400	J3680010
L22	26,45	240,55
HT	16,40	187,00
Package	Spray can	Can
Quantity L	0,4	10

LOCTITE**MULTI-PURPOSE LUBRICANTS**

Five-way mineral-based release agent. unlocks, lubricates, cleans, removes moisture and prevents corrosion. Ideal for lubricating metal and plastic, resistant up to 120°C.



CODE	J2150400
L22	8,90
HT	6,00
Package	Spray can
Quantity ml	400

LTEC

Chemical products

LTEC 

DETERGENTS FOR HYDRO CLEANERS



MRN BLU is a universal degreaser for use in high-pressure washers. The MRN BLU cleaner for water cleaners effectively removes oils, greases, mineral or synthetic oils residues from surfaces, while providing an effective protective effect.

CODE	J3560T
L22	104,00
	68,00
Confezione	Can
Weight kg	25

LTEC 

CONCENTRATED DETERGENT FOR FLOOR CLEANING MACHINES



FAST CLEAN is a liquid detergent for washing floors with washer-dryer machines. It is not foaming. Suitable for cleaning floors in cement, clinker, natural and artificial stones. (not wood). FAST CLEAN is suitable for cleaning very dirty rooms, workshops, warehouses, industrial floors and sports facilities. It has a strong degreasing power and eliminates any kind of dirt. Dilute to 2.5 - 4 % with water, depending of the degree of dirt on the surface to be treated. Pour the product directly into the machine tank. Warnings: before applying it, check the colour of the floor.

CODE	J3565T
L22	143,40
HT	79,00
Confezione	Can
Weight kg	25



HAND-WASH GEL



DETGREEN HANDY GEL ORANGE is a solvent-free handwash gel, with a softer mineral abrasive (calcium carbonate), with aloe and vegetable surfactants. Very effective for removing industrial dirt without harming the skin.

CODE	J5221B3	
L22	25,90	19,20
	16,50	12,50
Package	Small container with dispenser	Refill sachet
Quantity L	3	3



HAND-WASH CREAM



DETGREEN HANDY CREAM WHITE is a creamy solvent-free detergent. It contains a mineral abrasive (calcium carbonate) and vegetable surfactants. Creamy, mild and pH neutral. Suitable for frequent washing.

CODE	J52263	J52265	J5226B3
L22	24,60	32,60	18,60
	16,00	21,20	12,10
Package	Small container	Small container	Refill sachet
Quantity L	3	5	3



HAND-WASH PASTE



DETGREEN PASTA is a sand-free ecological handwash paste that contains natural surfactants and soaps. A natural wood flour based abrasive produced from renewable sources. Ideal for removing stubborn and ingrained dirt.

CODE	J52401	J52405
L22	3,90	7,90
HT	2,15	6,32
Package	Tub	Bucket
Quantity L	1	5



HAND-WASH LIQUID



DETGREEN HANDY SOAP is a pH neutral liquid detergent, whose mild and effective formulation allows frequent use without altering the hydrolipidic balance of the skin. Formulated using vegetable surfactants from renewable sources. Suitable for hands and body, ideal for office use and light soiling.

CODE	J5415500	J541510
L22	4,70	32,30
HT	3,00	21,00
Package	Small container with dispenser	Refill
Quantity L	0,5	10

SAF-FRO

OXYGEN PRESSURE REDUCERS



CODE	J77110
L22	144,00
HT	112,00
Entry scale bar	0 – 300/315
Exit scale bar	0 – 15/16
Max. press. bar	10

SAF-FRO

ACETYLENE PRESSURE REDUCERS



CODE	J771401
L22	158,00
HT	126,00
Entry scale bar	0 – 40
Exit scale bar	0 – 2,5
Max. press. bar	1,5

SAF-FRO

PROPANE PRESSURE REDUCERS



CODE	J771501
L22	140,00
HT	112,00
Scale bar	0 – 6
Max. press. bar	4

SAF-FRO

ARGON PRESSURE REDUCERS WITH FLOW METER



CODE	J771901
L22	168,00
HT	134,00
Manometer scale bar	0 – 300/315
Flowmeter scale L/min	0 – 20

SAF-FRO

SAFETY DEVICE FOR TORCHES



CODE	J7730OSS	J7730GAS
L22	37,00	37,00
HT	29,50	29,50
Use for	Oxygen	*comb. gas
Threaded coupling	G 3/8 DX	G 3/8 SX
Hose connection Ø mm	8 - 6,3	8 - 6,3

SAF-FRO

SAFETY DEVICE FOR HOSES



CODE	J7735OSS	J7735GAS
L22	34,00	34,00
HT	24,80	24,80
Use for	Oxygen	*comb. gas
Hose connection Ø mm	8 - 6,3	8 - 6,3

SAF-FRO

SAFETY DEVICE FOR REDUCERS



CODE	J7740OSS	J7740GAS
L22	47,00	47,00
HT	37,60	37,60
Use for	Oxygen	*comb. gas
Threaded coupling	G 3/8 DX	G 3/8 SX

MULTIFUNCTION WELDERS

Monophase multifunction welding machine with Inverter technology. It carries out MIG, MMA and TIG LIFT welding processes. Portable, light and robust. Equipped with a large display for consulting the parameters. It is compatible with motor generator. Arc Force and Hot Start function that facilitate the start and help keep the arc lit. Anti Sticking Function. Polarity change. Includes MIG torch with 3m cable and 3m work cable

BESTER 190C MULTI



CODE		J6125190
L22		754,90
HT		600,00
Power supply voltage	V	230 monophase
Power setting MIG	A	30 - 180
Intermittence ratio MIG	A	180 (20%) - 115 (60%) - 90 (100%)
Power setting MMA	A	15 - 180
Intermittence ratio MMA	A	180 (15%) - 95 (60%) - 75 (100%)
Power setting TIG	A	15 - 180
Intermittence ratio TIG	A	180 (25%) - 120 (60%) - 90 (100%)
Max reel size	Kg	5
Cable diameter	mm	0,6 ÷ 1,0
Dimension	mm	463 x 217 x 304
Weight	Kg	13,7





WODEX 

SOFTSHELL JACKET

NEW



CODE	L22	HT	Size	EU size
K0673M	85,00	50,00	M	48/50
K0673L	85,00	50,00	L	52
K0673XL	85,00	50,00	XL	54/56
K0673XXL	85,00	50,00	XXL	58/60

WODEX 

WORK TROUSERS

NEW



FREE

CODE	L22	HT	EU
K0674M	34,00	26,00	M 48/50
K0674L	34,00	26,00	L 52
K0674XL	34,00	26,00	XL 54/56
K0674XXL	34,00	26,00	XXL 58/60

SAFETY SHOES



RACE 200

€ 52,00

K1200



SAFETY SHOES



**RACE 200
MID**

€ 56,00

K1201



SAFETY SHOES



**AGILITY
ADVANCE**

€ 65,00

K1681



SAFETY SHOES



RELOAD

€ 70,00

K1707



FOOTWEAR ICONS LEGEND



Safety requirements
S1P



Safety requirements
S3



Non-slip
tread



Electrostatic discharge



Steel
midsole



Dynamic impermeability
of the uppers



Antistatic
footwear



Oil resistant
sole



200 joule
toe cap



Energy
absorbing heel



Breathable
leather upper

	K1200	K1201	K1681	K1707	EU	US
K120036	-	-	-	-	36	4,5
K120037	-	-	-	-	37	5
K120038	K120138	K168138	K170738		38	5,5
K120039	K120139	K168139	K170739		39	6
K120040	K120140	K168140	K170740		40	7
K120041	K120141	K168141	K170741		41	8
K120042	K120142	K168142	K170742		42	8,5
K120043	K120143	K168143	K170743		43	9
K120044	K120144	K168144	K170744		44	10
K120045	K120145	K168145	K170745		45	11
K120046	K120146	K168146	K170746		46	11,5
K120047	K120147	K168147	K170747		47	12

WRK

COWHIDE GRAIN LEATHER GLOVES



2143X

CODE	L22	HT	EU	
K21007	5,62	2,00	M	7
K21008	5,62	2,00	L	8
K21009	5,62	2,00	XL	9
K210010	5,62	2,00	XXL	10
K210011	5,62	2,00	XXXL	11

WRK
NEW

CUT-PROOF GLOVES COATED IN POLYURETHANE



4442C

CODE	L22	HT	EU	
K234607	6,49	3,40	7	S
K234608	6,49	3,40	8	M
K234609	6,49	3,40	9	L
K234610	6,49	3,40	10	XL

WRK
NEW

DISPOSABLE NITRILE GLOVES



EN 374-1



CODE	L22	HT	EU	
K251607	14,99	6,50	S	7
K251608	14,99	6,50	M	8
K251609	14,99	6,50	L	9
K251610	14,99	6,50	XL	10

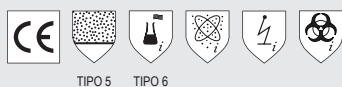
arexon5

DISPOSABLE GLOVES IN EMBOSSED NITRILE 50PZ



CODE	L22	HT	EU	
K251408	34,50	20,00	M	8
K251409	34,50	20,00	L	9
K251410	34,50	20,00	XL	10

ONE PIECE DISPOSABLE OVERALLS WITH HOOD



TIPO 5 TIPO 6

CODE	L22	HT	Taglia	
K3204M	8,50	5,00	M	5
K3204L	8,50	5,00	L	5
K3204XL	8,50	5,00	XL	5
K3204XXL	8,50	5,00	XXL	5

3M

FILTERING RESPIRATORS FFP1



CODE	L22	HT
K521020	6,68	3,80



SELF-TILTING SCRAP HOLDERS



CODE	L22	HT	Model	Capacity kg	Weight Kg	A x B x C mm	D mm	E mm	Inclination °
P4511280	844,00	690,00	lt - 280	600	80	970 x 750 x 890	700	790	25,1
P4511300	934,00	790,00	lt - 300	600	102	1350 x 820 x 650	490	520	63,5
P4511500	4.188,00	940,00	lt - 500	1000	130	1350 x 920 x 910	700	740	57,6
P4511750	4.470,00	1000,00	lt - 750	1350	152	1350 x 1070 x 1040	825	800	49,6
P45111000	4.232,00	1100,00	lt - 1000	1700	181	1550 x 1070 x 1210	970	920	54

TROLLEYS WITH 3 TRAYS



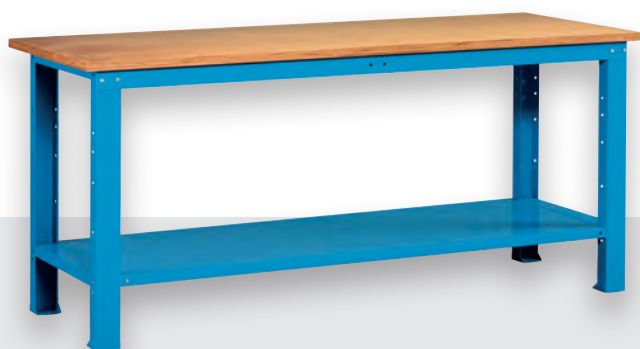
CODE	P5315201
L22	350,00
HT	200,00
Dimension mm	1024 x 615 x 847 h
Wheel Ø mm	125
Tray capacity kg	100
Weight kg	29,32
Colour	Blue RAL 5012

WORK TROLLEYS WITH 2 TRAYS



CODE	P533201
L22	220,00
HT	180,00
Dimensioni mm	920 x 600 x 840
Ruote Ø mm	125
Portata per vasca kg	100
Colore	Blue RAL 5015

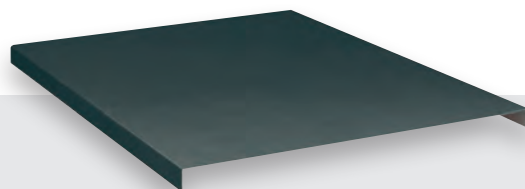
WOODEN TOP WORKBENCHES



Multiplex wood top 30mm thick. Designed to accommodate drawers and cabinets). Bolted structure. Blue Ral 5012, supplied disassembled.

CODE	P00251000	P00251500	P00252000
L22	350,00	437,50	509,50
HT	205,00	255,00	300,00
Dimensions mm	1024 x 750 x 880h	1500 x 750 x 880h	2000 x 750 x 880h
Capacity kg	1000	1000	1000
Weight kg	45	65	115
Colour	RAL 5012	RAL 5012	RAL 5012

STEEL COVER COATED WITH OIL-RESISTANT RUBBER FOR WOODEN WORKTOPS



Copertura in acciaio rivestite in gomma antioil, adatte per banchi con piano in legno.

CODE	P0021A1000	P0021A1500	P0021A2000
L22	430,00	480,00	530,00
HT	75,00	100,00	130,00
For workbenches mm	1024 x 750	1500 x 750	2000 x 750
Weight kg	6,17	9,31	12,31

CABINETS FOR WORKBENCHES - 500MM



Easy open drawers mounted on nylon bearings, key lock on each drawer and door, complete with fittings for attaching to workbenches. Overall width of the module: 500mm

CODE	P00403C01
L22	(372,50)
HT	200,00
Dimension mm	500 x 607 x 570h
Type	tre cassetti
Weight kg	24,30
Colour	RAL 5012

DRAWERS FOR WORKBENCHES - 500MM



Easy open drawers mounted on nylon bearings, key locking, complete with fittings for attaching to workbenches. Overall width of the module: 500mm

CODE	P00301C01
L22	(455,00)
HT	84,00
Dimension mm	500 x 607 x 210 h
Type	8,90
Weight kg	25
Colour	RAL 5012

CABINETS WITH FULL EXTENSION DRAWERS

Cabinet with full extension drawers and central locking.

P21107C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

P21109C... composed of 9 drawers, height 100 mm.



CODE	P21107C01	P21107C02	P21109C01	P21109C02
L22	(1.050,00)	(1.050,00)	(1.220,00)	(1.220,00)
HT	600,00	600,00	715,00	715,00
Dimensions mm	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h
Drawers n°	7	7	9	9
Drawer capacity kg	70	70	70	70
Colour	Blue RAL 5012	Grey RAL 7035	Blue RAL 5012	Grey RAL 7035

DOUBLE-SIDED TROLLEY WITH WOLF-MOUTH CONTAINERS



Container trolley equipped with 2 fixed non-marking synthetic rubber wheels Ø 125 mm and 2 swivel wheels with brakes, non-marking synthetic rubber wheels Ø 125 mm, set of 5 profiles with 90 containers size 1 and set of 4 profiles with 48 containers size 2. Maximum trolley load 300 kg.

CODE	P41131
L22	(968,00)
HT	480,00
Dimensioni mm	1067 x 668 x 1357 h
Con Contenitori	Yes
Colore	Painted sheet metal, anthracite grey (RAL 7016)

CABINETS WITH HINGED DOORS



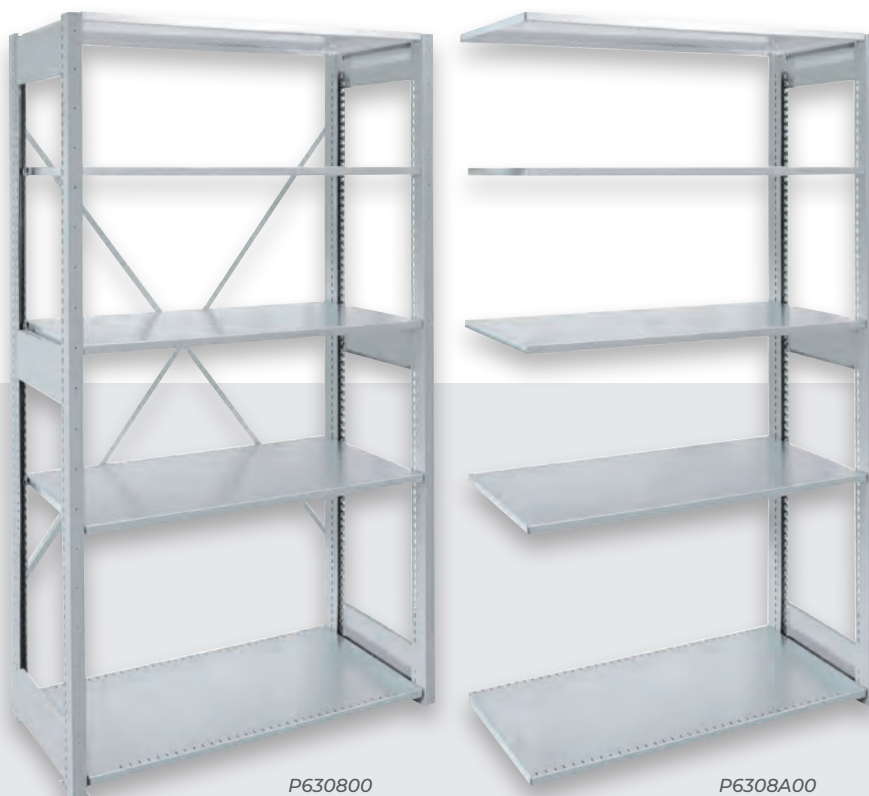
Cabinet with hinged doors, 4 shelves depth 500 mm (shelf capacity: 100 Kg).

CODE	P3140100001
L22	(786,00)
HT	450,00
Dimension mm	1023 x 555 x 2000 h
Capacity kg	800
Colour	Blue RAL 5012

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.

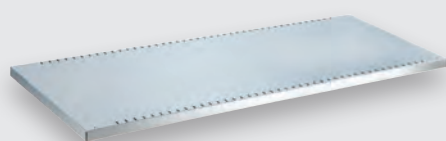
CODE	P630800	P6308A00
L22	263,80	499,79
HT	230,00	160,00
Dimension mm	1000 x 400 x 2000	1000 x 400 x 2000
Shelves n°	5 x 160 Kg	5 x 160 Kg
Description	Universal shelving	Additional bay
Capacity kg	2800	2800



CABINETS WITH SHEET METAL DOORS

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

CODE	P3053B01	P3053B02
L22	(666,50)	(666,50)
HT	550,00	550,00
Dimension mm	1000 x 500 x 1950h	1000 x 500 x 1950h
Shelves	4 x 60kg	4 x 60kg
Colour	RAL 5012	RAL 7035
Load capacity kg	500	500



ADJUSTABLE SHELVES

Adjustable metal shelves with four fixing hooks. Beveled on the length of 4 x 90 degrees 30 mm thick.

CODE	P3057B
L22	(27,50)
HT	23,00
Dimension mm	1000 x 500
Load capacity kg	60



CABINET DRAWERS 36 X 36 E

Drawers with total drawers extraction and with anti-tip device. Includes script list labeling system with CODE LOCK.

7 drawers:
1x50 mm / 2x75 mm / 2x100 mm /
1x200 mm / 1x300 mm

Drawers capacity kg
75 kg



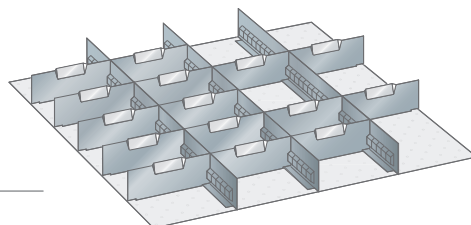
CODE	P2122CC01
L22	-
HT	890,00
Dimension mm	717 x 725 x 1000h
Colour	RAL 5012



SLOTTED PARTITIONS AND METAL DIVICERS IN KIT 36 X 36 E

Useful surface of drawers W X D: 612 x 612 mm.

- 3 slotted partitions 36 E
- 15 metal dividers 9 E



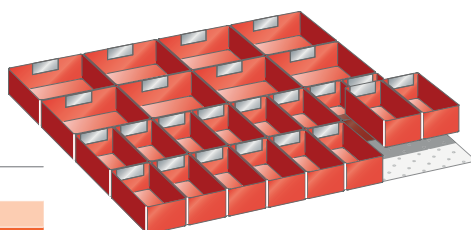
CODE	P227403
L22	69,60
HT	58,00
Drawer height mm	200



SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 36 X 36 E

Useful surface of drawers W x D: 612 x 612 mm.

- 16 boxes 150 x 75 mm
- 8 boxes 150 x 150 mm



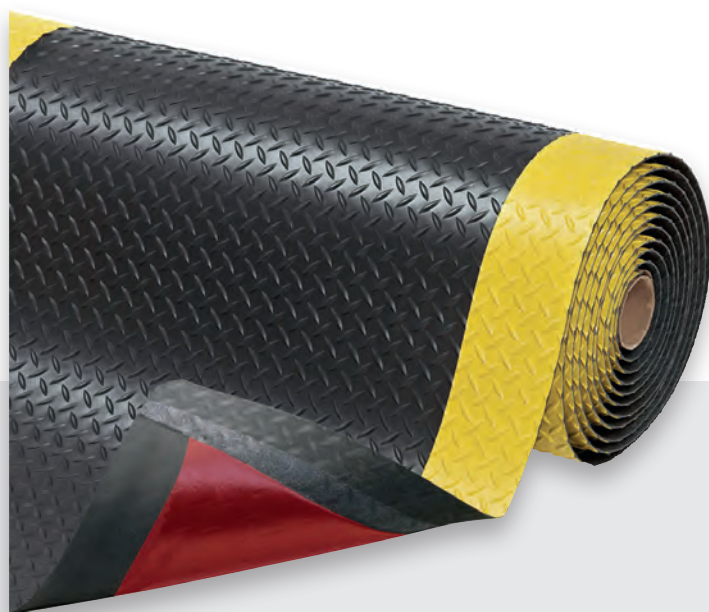
CODE	P229101	P229102
L22	67,00	403,60
HT	57,00	90,00
Drawer height mm	75	100 - 125



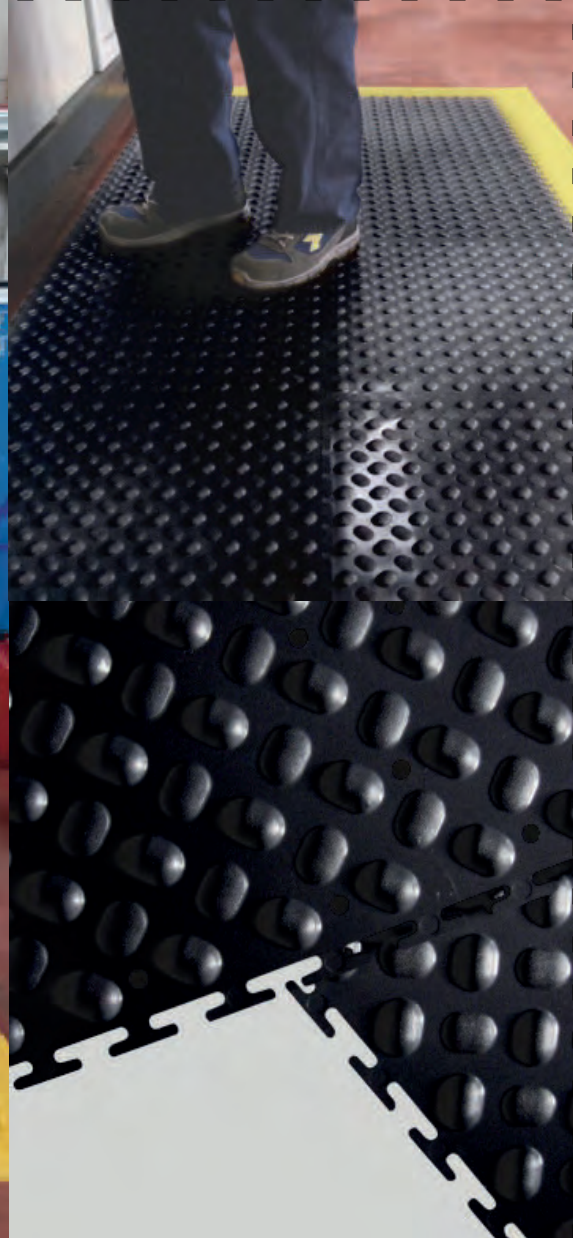


ANTI-FATIGUE MATS PVC

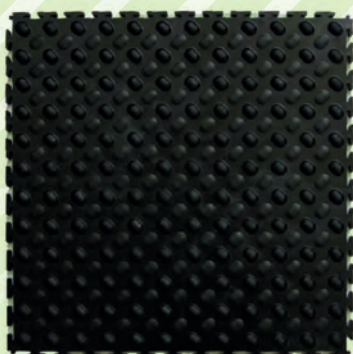
The anti-fatigue mat has a hard-wearing 14 mm thick base consisting of a wear-resistant surface bonded to an elastic microcellular vinyl backing to ensure maximum durability, comfort, cushioning and the absence of vibration. The rhombus structure provides traction and allows it to bend more easily. The design and the composition of the materials make it the most versatile solution for fatigue relief in both static and dynamic working positions. R10 slip rating according to standards DIN 51130 and BGR181. With RedStop™ slip-resistant backing to prevent sliding. Available with yellow borders along the sides to comply with OHSA 1910-144 directive and bevelled edges on all four edges to minimize risk of tripping. Free from DOP, DMF, ozone depleting substances, silicone or heavy metals.



CODE	P7630NG10	P7630NG20	P7630NG30
L22	(79,00)	(239,00)	(472,00)
HT	65,00	195,00	380,00
Dimension cm	60 x 91	91 x 150	91 x 300
Thickness mm	14	14	14
Weight kg/m²	5,5	5,5	5,5
Classification	Bfl-S1	Bfl-S1	Bfl-S1
Material	PVC	PVC	PVC
Colour	Black-yellow	Black-yellow	Black-yellow



NON-SLIP ERGONOMIC MAT



The ergonomic P7424 non-slip mat has a perforated finish. It is suitable for any type of workstation with anti-slip reliefs on the upper side. When compressed by weight, the reliefs that protrude the most ensure stability and maximum slip resistance. The mats are interlock with one another, which makes them extremely easy to use. The mat has numerous advantages, including anti-fatigue properties and a completely non-slip surface, it prevents damage caused by objects falling accidentally and lastly, it provides excellent thermal insulation. It is also washable.

	PAD	RAMP	ANGLE
CODE	P7424UC	P7427UCG	P7428AG
L22	32,00	46,00	46,00
HT	24,00	11,00	11,00
Dimension mm	500x500	500x130	130x130
Thickness mm	17	-	-
Weight Kg/m²	2,6	0,5	0,25
Color	Black	Yellow	Yellow

NEW

HANDLING





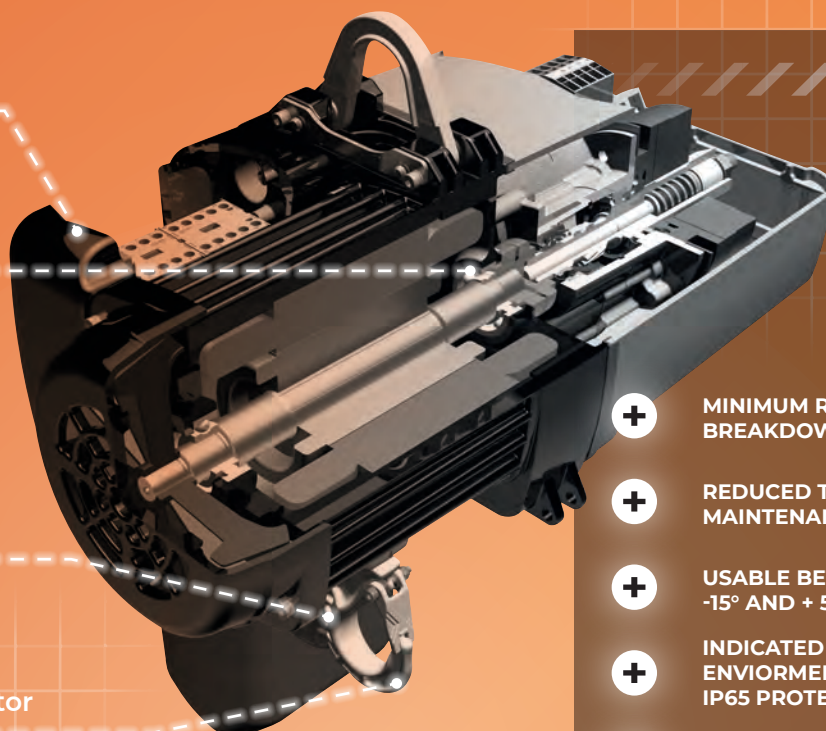
ELECTRIC CHAIN HOISTS

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	4.993,00	1500,00	125	GP250/1NF	4m (M7)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	4.993,00	1500,00	200	GP250/1NF	3m (M6)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052501NF2	4.993,00	1500,00	250	GP250/1NF	2m (M5)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00055002NF	2.159,00	1600,00	500	GP250/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	25
M000510002NF	2.374,00	1800,00	1000	GP500/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	28
M000516002NF	3.380,00	2500,00	1600	GP1000/2NF	3m (M6)	4/1	2	3	2,3 / 0,68	5,7 / 4,1	66



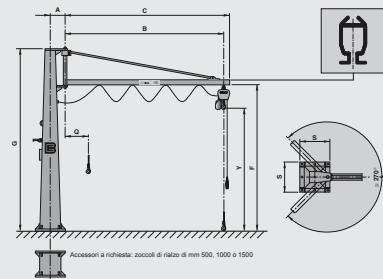
FREE

M0990DT
CYCLE COUNTERS FOR HOISTS



B·HANDLING 3

COLUMN-MOUNTED JIB CRANES
WITH GIS SYSTEM KB PROFILE ARM

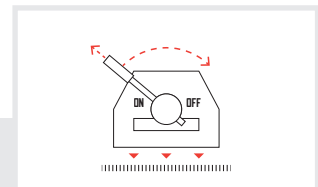
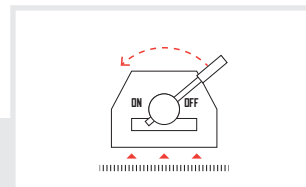


CODE			LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
	L22	HT															
M10101254000	2.067,00	1600,00	125	SC 125/4000	4030	3865	305	3430	4025	570	560	2875	5	1A	3	720	280
M10101255000	2.220,00	1650,00	125	SC 125/5000	5030	4865	305	3430	4025	655	560	2875	6	1A	4	890	300
M10101256000	2.436,00	1700,00	125	SC 125/6000	6030	5850	305	3425	4025	680	560	2865	7	1A	5	1060	320
M10102004000	2.438,00	1650,00	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
M10102005000	2.344,00	1800,00	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
M10102006000	2.686,00	1950,00	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330



B·HANDLING 3

LIFTING MAGNETS - NEO



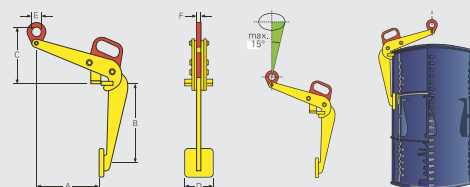
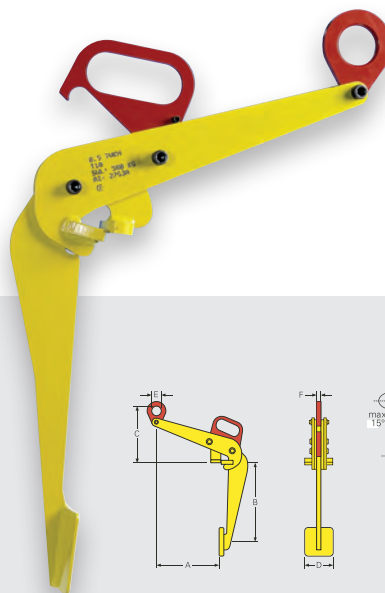
CODE	L22	HT	Model	Lifting pow. plate surf. kg	Lifting pow. round surf. kg	Ø min lift mm	Ø max lift mm	Eyebolt height mm	Length x width mm	Weight kg
M8020125	500,00	300,00	NEO 125	125	40	50	100	110	93 x 60	3
M8020250	742,00	425,00	NEO 250	250	125	60	200	164	152 x 100	10
M8020500	1.062,00	635,00	NEO 500	500	250	65	270	164	246 x 120	20
M80201000	1.872,00	1120,00	NEO 1000	1000	500	100	300	216	305 x 140	40
M80202000	3.100,00	1860,00	NEO 2000	2000	1000	150	350	251	480 x 165	90

DRUM LIFTING CLAMPS FOR TRANSPORTATION OF THE DRUMS.

Features:

- Body and components made of high quality steel
- The extent, thickness of the lifting capacity and the jaw opening is engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport in complete safety of even full drums

CODE	M7055600
L22	287,00
HT	215,00
Model	TVKH
Load capacity kg	600
Opening mm	0 - 25
A mm	305
B mm	434
C-max mm	331
D mm	100
E mm	50
F mm	10
Weight kg	7



B·HANDLING 3

CLAMP FOR 200 LITRE DRUMS

Features:

- Can be attached to the forks of forklift trucks
- Works automatically, both when gripping and releasing
- Safety chain to secure the equipment to the forklift

CODE	M7060300
L22	-
HT	1249,00
Model	PF200
Capacity kg	300
Length (mm)	1220
Width (mm)	670
Height (mm)	200
Fork dimensions max. (mm)	135 x 45
Weight kg	50



NEW

B·HANDLING 3

MANUAL DRUM ROTATOR FOR 200 LITRE DRUMS

Features:

- Can be attached to the forks of a forklift truck
- Allows you to rotate the drums from vertical to horizontal and vice versa
- Drums are transported in a horizontal position
- All operations are carried out with the operator on the forklift truck

CODE	M7065300
L22	-
HT	3499,00
Model	PRF200
Capacity kg	300
Length (mm)	2110
Width (mm)	612
Height (mm)	470
Fork dimensions max. (mm)	145 x 45
Weight kg	140



NEW



STACKER RX 10/16 EVO GEL 1000KG

Features:

- Compact size, ergonomic
- Powerful maintenance-free gel battery
- Ergonomic tiller with accelerator, proportional fork control, safety button, horn, tortoise button, display with hour meter and battery indicator

Advantages:

- Safe and fast lifting and handling of pallets
- Convenient height-adjustable work surface
- Excellent for handling in confined spaces because it can also be used with the tiller in a vertical position when operated in tortoise mode

CODE	M901110001600
L22	-
HT	5899,00
Model	RX10/16 EVO GEL
Capacity kg	1000
Fork dimensions (mm)	1150-560
Lifting height (mm)	1510
Mast height (mm)	1970
Weight kg	371



STACKER GX12/29 EVO GEL

Compact stacker

Features:

- Compact size (width 800 mm), side tiller, wide mast
- Powerful maintenance-free gel battery
- Ergonomic tiller with accelerator, proportional control for the forks, safety button, horn, tortoise button, display with hour meter and battery indicator
- mast with height indicator

Advantages:

- Safe and fast lifting and handling of pallets, great visibility
- Convenient height-adjustable work surface
- Excellent for handling in confined spaces because it can also be used with the tiller in a vertical position when operated in tortoise mode

CODE	M901212002900
L22	-
HT	7499,00
Model	GX 12/29 EVO GEL
Capacity kg	1200
Fork dimensions (mm)	1150-560
Lifting height (mm)	2810
Lowered mast height (mm)	1987
Extended mast height (mm)	3392
Weight kg	585

ELECTRIC PALLET TRUCK EX15L

Pallet truck with electric traction and lifting, the ideal solution for light logistics operations

Features:

- Easy to use, compact size, lightweight
- Powerful removable lithium battery
- Emergency button and electric brake as standard

Advantages:

- Quick and easy pallet handling
- Fast charging thanks to the removable and replaceable lithium battery

CODE	M91221500
L22	-
HT	2349,00
Model	EX15L
Capacity kg	1500
Fork dimensions (mm)	1150-560
Lifting height (mm)	115
Travel speed (km/h)	4,5
Weight kg	120



TOP *TIPS*



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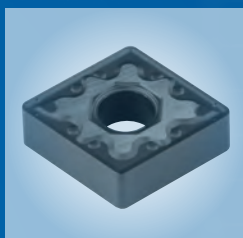
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H3618
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B0C57
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D2512
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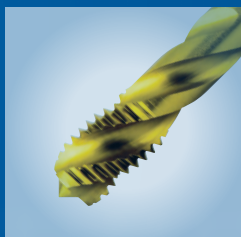
A0040
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A6158
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A2105
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H1320
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