

HIGH LIGHT

PRECISIONING

LUBRICANTS

HANDLING

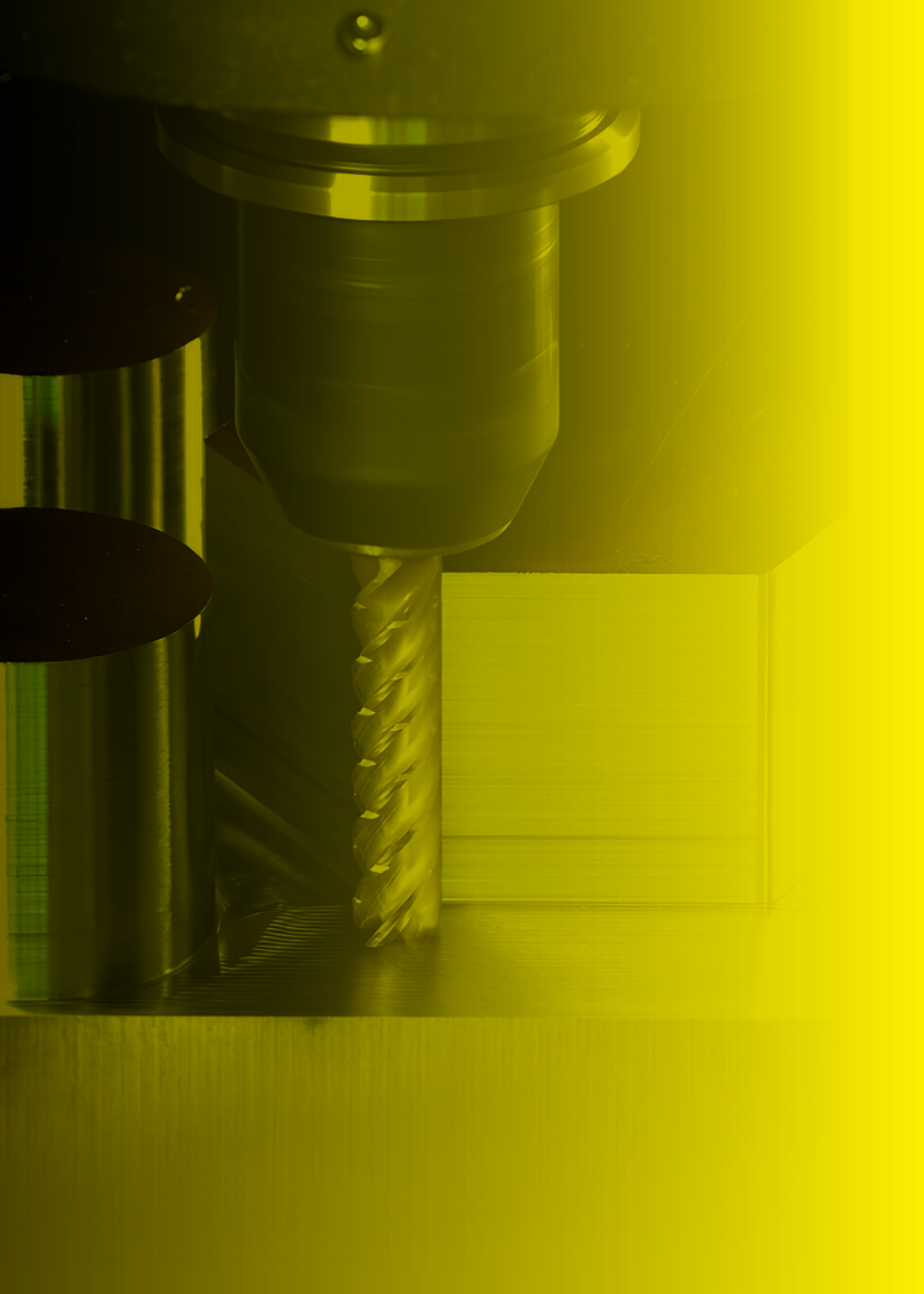
METROLOGY

TECHNOLOGY

MRO

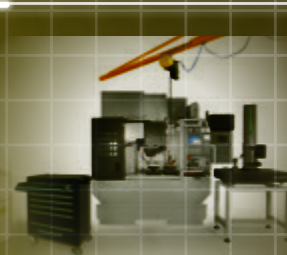
NET PRICES VALID UNTIL 30.09.26 (VAT EXCLUDED)

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 (Mituotyo, 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.

34

LUBRICANTS



42

MRO

04

PRECISION
TOOLING

*in 3 m
everything*



52
HANDLING



22
METROLOGY

eters
you need

PRECISION TOOLING



POWER ALU

The tools in the Power range are designed to withstand continuous production cycles, ensuring a long tool life and a high chip volume ratio.

Specialised coating

The DLC coating has an extremely low coefficient of friction and can withstand temperatures of up to 500 °C, making these tools suitable for large-scale production runs.



High chip removal rates

HPC technology (High Power Cutting) enables high chip removal rates.

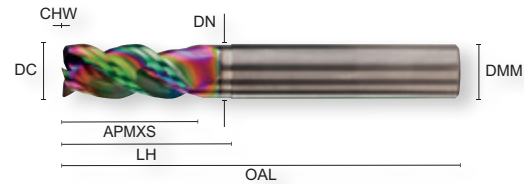


Continuous cycles and enhanced durability

*The polished rake angle and chip clearance groove improve chip evacuation.
The cut is smoother and quieter, whilst also improving the quality of the machined surface.*



P	M	K	N	S	H	O	
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
W	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB DIN 6527 HA	
COATING	STANDARD	DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
DLC							



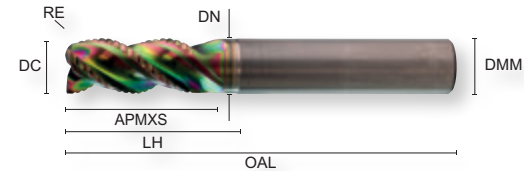
Hpc end mills with variable pitch and helix z3 with bevel

CODE	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P4703	3	8	2,9	13	57	6	0,1	3
A4P4704	4	13	3,9	17	57	6	0,1	3
A4P4705	5	13	4,9	18	57	6	0,1	3
A4P4706	6	13	5,9	18	57	6	0,2	3
A4P4708	8	21	7,7	25	63	8	0,2	3
A4P4710	10	22	9,7	30	72	10	0,2	3
A4P4712	12	26	11,7	36	83	12	0,2	3

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O		
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	
WR	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		
COATING	STANDARD	ROUGHER	DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
DLC								



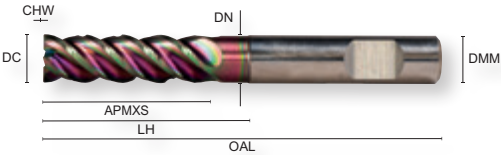
Hpc end mills with variable pitch and helix z3 with radius roughing profile

CODE	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5506	6	0,2	13	5,8	18	58	6	3
A4P5508	8	0,2	21	7,8	25	63	8	3
A4P5510	10	0,3	22	9,7	30	72	10	3
A4P5512	12	0,4	26	11,7	36	84	12	3
A4P5516	16	0,6	36	15,5	42	92	16	3

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O		
TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
W	HM	HDM	HPC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB	
COATING	STANDARD	DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.			
DLC								



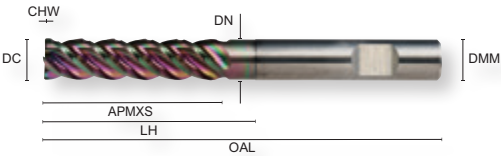
Hpc end mills with variable pitch and helix z4 - 3xd with chamfer - high dynamic milling

CODE	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P7508W	8	25	7,8	30	68	8	0,2	4
A4P7510W	10	31	9,8	38	80	10	0,2	4
A4P7512W	12	37	11,7	46	93	12	0,3	4
A4P7516W	16	49	15,5	58	108	16	0,3	4
A4P7520W	20	61	19,5	74	126	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O		
TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
W	HM	HDM	HPC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB	
COATING	LONG	DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.			
DLC								



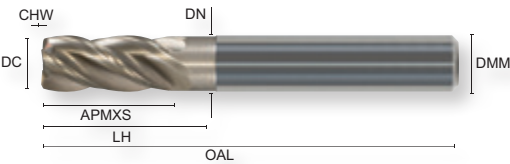
Hpc end mills with variable pitch and helix z4 - 4xd with chamfer - high dynamic milling

CODE	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P7610W	10	41	9,8	50	95	10	0,2	4
A4P7612W	12	49	11,7	60	109	12	0,3	4
A4P7616W	16	65	15,5	80	132	16	0,3	4
A4P7620W	20	82	19,5	100	154	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O	
							
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA	
COATING	STANDARD	DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
PLATEX							



Hpc end mills with variable pitch and helix z4 with bevel

CODE	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4003	3	8	-	-	57	6	0,1	4
A4U4004	4	11	3,9	12	57	6	0,1	4
A4U4005	5	13	4,9	18	57	6	0,1	4
A4U4006	6	13	5,9	18	57	6	0,1	4
A4U4008	8	21	7,8	25	63	8	0,2	4
A4U4009	9	22	8,7	30	72	10	0,2	4
A4U4010	10	22	9,7	30	72	10	0,2	4
A4U4012	12	26	11,7	36	83	12	0,3	4
A4U4014	14	26	13,7	36	83	14	0,3	4
A4U4016	16	36	15,5	42	92	16	0,3	4
A4U4020	20	41	19,5	52	103	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O	
							
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA	
COATING	SHORT	DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
PLATEX 							



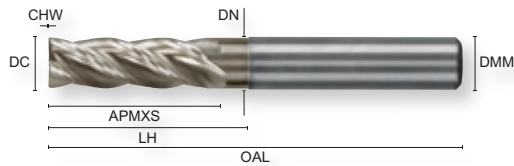
Hpc end mills with pitch and variable helix z4 extra-short with bevel

CODE	DC f8 mm	APMXS mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4104	4	8	54	6	0,1	4
A4U4105	5	9	54	6	0,1	4
A4U4106	6	10	54	6	0,1	4
A4U4108	8	12	58	8	0,2	4
A4U4110	10	14	66	10	0,2	4
A4U4112	12	16	73	12	0,3	4
A4U4116	16	22	82	16	0,2	4
A4U4120	20	26	92	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O	
							
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA	
COATING	LONG	DIRECTIONS	SLOTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
PLATEX 							



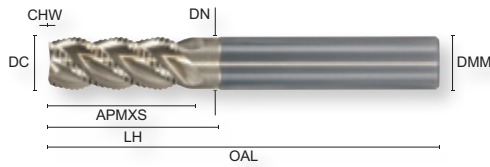
HPC end mills with variable pitch and helix Z4 long with bevel

CODE	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4206	6	18	5,9	24	62	6	0,1	4
A4U4208	8	24	7,8	30	68	8	0,2	4
A4U4210	10	30	9,7	39	80	10	0,2	4
A4U4212	12	36	11,7	46	93	12	0,3	4
A4U4216	16	48	15,5	58	108	16	0,3	4
A4U4220	20	60	19,5	75	126	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P	M	K	N	S	H	O		
TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER
NR	HM	HPC	MTC	≠	λs= 44°/45,5° γs= 8°		DIN 6535 HB DIN 6535 HA	
COATING	STANDARD	ROUGHER	DIRECTIONS	SLOTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.
PLATEX								



Hpc end mills with variable pitch and helix z4 with chamfer - roughing profile

CODE	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U1204	4	11	3,9	16	57	6	0,1	4
A4U1205	5	13	4,9	18	57	6	0,1	4
A4U1206	6	13	5,9	20	57	6	0,1	4
A4U1208	8	21	7,8	26	63	8	0,2	4
A4U1210	10	23	9,7	31	72	10	0,2	4
A4U1212	12	26	11,7	37	83	12	0,3	4
A4U1216	16	32	15,5	42	92	16	0,3	4
A4U1220	20	38	19,5	53	104	20	0,3	4

* End mills are also available with Weldon shank from DMM ≥ 6 mm

* price on request

P M K N S H O

TOOL TYPE

N

MATERIAL

HM

HOLE DEPTH

≤ 3xD

DIN

6537K

HELIX ANGLE

λ=30°

POINT ANGLE

140°

NOF

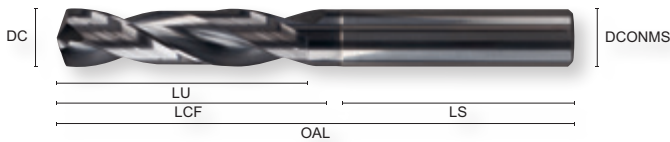


SHANK

DIN 6535 HB
DIN 6535 HA

COATING

DEVIL



Carbide drills with 3xd reinforced shank without holes

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00053	3,0	6	62	20	14	36
A00053,1	3,1	6	62	20	14	36
A00053,2	3,2	6	62	20	14	36
A00053,3	3,3	6	62	20	14	36
A00053,4	3,4	6	62	20	14	36
A00053,5	3,5	6	62	20	14	36
A00053,6	3,6	6	62	20	14	36
A00053,7	3,7	6	62	20	14	36
A00053,8	3,8	6	66	24	17	36
A00053,9	3,9	6	66	24	17	36
A00054	4,0	6	66	24	17	36
A00054,1	4,1	6	66	24	17	36
A00054,2	4,2	6	66	24	17	36
A00054,3	4,3	6	66	24	17	36
A00054,4	4,4	6	66	24	17	36
A00054,5	4,5	6	66	24	17	36
A00054,6	4,6	6	66	24	17	36
A00054,7	4,7	6	66	24	17	36
A00054,8	4,8	6	66	28	20	36
A00054,9	4,9	6	66	28	20	36
A00055	5,0	6	66	28	20	36
A00055,1	5,1	6	66	28	20	36
A00055,2	5,2	6	66	28	20	36
A00055,3	5,3	6	66	28	20	36
A00055,4	5,4	6	66	28	20	36
A00055,5	5,5	6	66	28	20	36
A00055,6	5,6	6	66	28	20	36

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00055,7	5,7	6	66	28	20	36
A00055,8	5,8	6	66	28	20	36
A00055,9	5,9	6	66	28	20	36
A00056	6,0	6	66	28	20	36
A00056,1	6,1	8	79	34	24	36
A00056,2	6,2	8	79	34	24	36
A00056,3	6,3	8	79	34	24	36
A00056,4	6,4	8	79	34	24	36
A00056,5	6,5	8	79	34	24	36
A00056,6	6,6	8	79	34	24	36
A00056,7	6,7	8	79	34	24	36
A00056,8	6,8	8	79	34	24	36
A00056,9	6,9	8	79	34	24	36
A00057	7,0	8	79	34	24	36
A00057,1	7,1	8	79	41	29	36
A00057,2	7,2	8	79	41	29	36
A00057,3	7,3	8	79	41	29	36
A00057,4	7,4	8	79	41	29	36
A00057,5	7,5	8	79	41	29	36
A00057,6	7,6	8	79	41	29	36
A00057,7	7,7	8	79	41	29	36
A00057,8	7,8	8	79	41	29	36
A00057,9	7,9	8	79	41	29	36
A00058	8,0	8	79	41	29	36
A00058,1	8,1	10	89	47	35	40
A00058,2	8,2	10	89	47	35	40
A00058,3	8,3	10	89	47	35	40

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00058,4	8,4	10	89	47	35	40
A00058,5	8,5	10	89	47	35	40
A00058,6	8,6	10	89	47	35	40
A00058,7	8,7	10	89	47	35	40
A00058,8	8,8	10	89	47	35	40
A00058,9	8,9	10	89	47	35	40
A00059	9,0	10	89	47	35	40
A00059,1	9,1	10	89	47	35	40
A00059,2	9,2	10	89	47	35	40
A00059,3	9,3	10	89	47	35	40
A00059,4	9,4	10	89	47	35	40
A00059,5	9,5	10	89	47	35	40
A00059,6	9,6	10	89	47	35	40
A00059,7	9,7	10	89	47	35	40
A00059,8	9,8	10	89	47	35	40
A00059,9	9,9	10	89	47	35	40
A000510	10,0	10	89	47	35	40
A000510,2	10,2	12	102	55	40	45
A000510,5	10,5	12	102	55	40	45
A000511	11,0	12	102	55	40	45
A000511,5	11,5	12	102	55	40	45
A000512	12	12	102	55	40	45
A000512,5	12,5	14	107	60	43	45
A000513	13,0	14	107	60	43	45
A000513,5	13,5	14	107	60	43	45
A000514	14,0	14	107	60	43	45

* price on request

P M K N S H O

TOOL TYPE

N

MATERIAL

HM

DIN

NDF

POINT ANGLE

142°

NOF

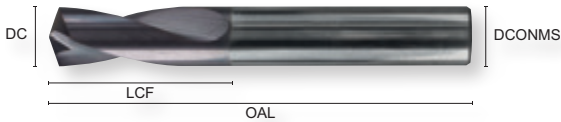


SHANK

DIN 6535 HB
DIN 6535 HA

COATING

DEVIL



142° carbide centre drill bits

CODE	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A169503	3	3	3	12
A169504	4	4	4	12
A169505	5	5	5	16
A169506	6	6	6	21
A169508	8	8	8	25
A169510	10	10	10	27
A169512	12	12	12	27
A169516	16	16	16	30
A169520	20	20	20	33

* price on request

P	M	K	N	S	H	O	
●	○	●					
TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB DIN 6535 HA
COOLANT	COATING						
	DEVIL						



Carbide drills with reinforced shank 5xd with holes

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00073	3,0	6	66	28	23	36
A00073,1	3,1	6	66	28	23	36
A00073,2	3,2	6	66	28	23	36
A00073,3	3,3	6	66	28	23	36
A00073,4	3,4	6	66	28	23	36
A00073,5	3,5	6	66	28	23	36
A00073,6	3,6	6	66	28	23	36
A00073,7	3,7	6	66	28	23	36
A00073,8	3,8	6	74	36	29	36
A00073,9	3,9	6	74	36	29	36
A00074	4,0	6	74	36	29	36
A00074,1	4,1	6	74	36	29	36
A00074,2	4,2	6	74	36	29	36
A00074,3	4,3	6	74	36	29	36
A00074,4	4,4	6	74	36	29	36
A00074,5	4,5	6	74	36	29	36
A00074,6	4,6	6	74	36	29	36
A00074,7	4,7	6	74	36	29	36
A00074,8	4,8	6	82	44	35	36
A00074,9	4,9	6	82	44	35	36
A00075	5,0	6	82	44	35	36
A00075,1	5,1	6	82	44	35	36
A00075,2	5,2	6	82	44	35	36
A00075,3	5,3	6	82	44	35	36
A00075,4	5,4	6	82	44	35	36
A00075,5	5,5	6	82	44	35	36
A00075,6	5,6	6	82	44	35	36
A00075,7	5,7	6	82	44	35	36
A00075,8	5,8	6	82	44	35	36
A00075,9	5,9	6	82	44	35	36
A00076	6,0	6	82	44	35	36
A00076,1	6,1	8	91	53	43	36
A00076,2	6,2	8	91	53	43	36
A00076,3	6,3	8	91	53	43	36

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00076,4	6,4	8	91	53	43	36
A00076,5	6,5	8	91	53	43	36
A00076,6	6,6	8	91	53	43	36
A00076,7	6,7	8	91	53	43	36
A00076,8	6,8	8	91	53	43	36
A00076,9	6,9	8	91	53	43	36
A00077	7,0	8	91	53	43	36
A00077,1	7,1	8	91	53	43	36
A00077,2	7,2	8	91	53	43	36
A00077,3	7,3	8	91	53	43	36
A00077,4	7,4	8	91	53	43	36
A00077,5	7,5	8	91	53	43	36
A00077,6	7,6	8	91	53	43	36
A00077,7	7,7	8	91	53	43	36
A00077,8	7,8	8	91	53	43	36
A00077,9	7,9	8	91	53	43	36
A00078	8,0	8	91	53	43	36
A00078,1	8,1	10	103	61	49	40
A00078,2	8,2	10	103	61	49	40
A00078,3	8,3	10	103	61	49	40
A00078,4	8,4	10	103	61	49	40
A00078,5	8,5	10	103	61	49	40
A00078,6	8,6	10	103	61	49	40
A00078,7	8,7	10	103	61	49	40
A00078,8	8,8	10	103	61	49	40
A00078,9	8,9	10	103	61	49	40
A00079	9,0	10	103	61	49	40
A00079,1	9,1	10	103	61	49	40
A00079,2	9,2	10	103	61	49	40
A00079,3	9,3	10	103	61	49	40
A00079,4	9,4	10	103	61	49	40
A00079,5	9,5	10	103	61	49	40
A00079,6	9,6	10	103	61	49	40
A00079,7	9,7	10	103	61	49	40

CODE	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A00079,8	9,8	10	103	61	49	40
A00079,9	9,9	10	103	61	49	40
A000710	10,0	10	103	61	49	40
A000710,1	10,1	12	118	71	56	45
A000710,2	10,2	12	118	71	56	45
A000710,3	10,3	12	118	71	56	45
A000710,4	10,4	12	118	71	56	45
A000710,5	10,5	12	118	71	56	45
A000710,6	10,6	12	118	71	56	45
A000710,7	10,7	12	118	71	56	45
A000710,8	10,8	12	118	71	56	45
A000710,9	10,9	12	118	71	56	45
A000711	11,0	12	118	71	56	45
A000711,1	11,1	12	118	71	56	45
A000711,2	11,2	12	118	71	56	45
A000711,3	11,3	12	118	71	56	45
A000711,4	11,4	12	118	71	56	45
A000711,5	11,5	12	118	71	56	45
A000711,6	11,6	12	118	71	56	45
A000711,7	11,7	12	118	71	56	45
A000711,8	11,8	12	118	71	56	45
A000711,9	11,9	12	118	71	56	45
A000712	12	12	118	71	56	45
A000712,1	12,1	14	124	77	60	45
A000712,2	12,2	14	124	77	60	45
A000712,5	12,5	14	124	77	60	45
A000713	13,0	14	124	77	60	45
A000713,5	13,5	14	124	77	60	45
A000714	14	14	124	77	60	45
A000714,5	14,5	16	133	83	63	48
A000715	15	16	133	83	63	48
A000716	16	16	133	83	63	48

* price on request

P	M	K	N	S	H	O	
							
TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	N/R	140°		DIN 6535 HB DIN 6535 HA	DURABLE

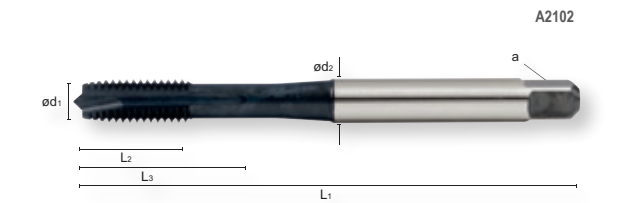


Stepped 90° carbide drill bits

CODE	DC h8 mm	DCONMS mm	OAL mm	LCF mm	SDL mm	LS mm
A1780M3	2,5	6	6	20	8.8	36
A1780M4	3,3	6	6	24	11.4	36
A1780M5	4,2	6	6	28	13.6	36
A1780M6	5,0	8	8	34	16.5	36
A1780M8	6,8	10	10	47	21	40
A1780M10	8,5	12	12	55	25.5	45
A1780M12	10,2	14	14	60	30	45
A1780M14	12,0	16	16	65	34.5	48
A1780M16	14,0	18	18	73	38.5	48

* price on request

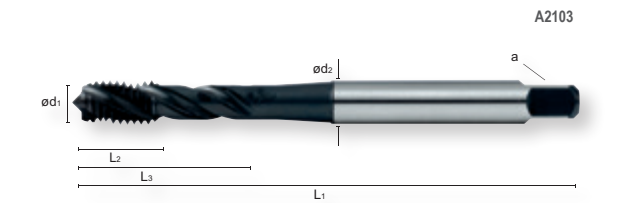
Universal taps - m-pitch
proper chamfer form for hsse through holes -
nitrided and vapourised



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	HSSE	DIN 371 DIN 376		Cutting	B 4-5	Straight
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral pointed	NIT+VAP	< 2xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2102M02	38,49	23,68	M2	0,4	45	7	12	2,8	2,1	2	1,6
A2102M02,5	36,93	22,90	M2,5	0,45	50	9	14	2,8	2,1	3	2,05
A2102M03	28,48	17,47	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2102M04	28,63	17,75	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2102M05	29,48	18,09	M5	0,8	70	15	25	6	4,9	3	4,2
A2102M06	29,45	18,07	M6	1	80	17	30	6	4,9	3	5
A2102M08	32,82	20,35	M8	1,25	90	20	35	8	6,2	3	6,8
A2102M10	40,04	24,81	M10	1,5	100	22	39	10	8	3	8,5
A2102M12	50,87	31,54	M12	1,75	110	24	-	9	7	4	10,2
A2102M14	77,66	48,00	M14	2	110	26	-	11	9	4	12
A2102M16	74,82	46,00	M16	2	110	27	-	12	9	4	14
A2102M18	125,82	78,00	M18	2,5	125	30	-	14	11	4	15,5
A2102M20	113,98	71,00	M20	2,5	140	32	-	16	12	4	17,5
A2102M22	189,37	117,00	M22	2,5	140	32	-	18	14,5	4	19,5
A2102M24	156,85	97,00	M24	3	160	34	-	18	14,5	4	21
A2102M27	246,32	134,00	M27	3	160	36	-	20	16	4	24
A2102M30	250,83	156,00	M30	3,5	180	40	-	22	-	4	26,5

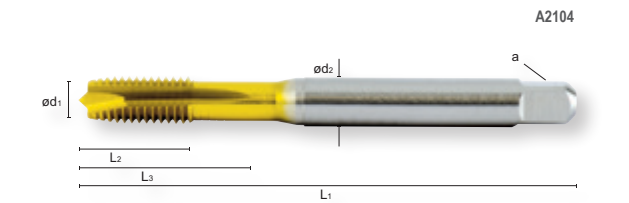
Universal taps - m-pitch
helix 40° for hsse blind holes -
nitrided and vapourised



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	HSSE	DIN 371 DIN 376		Cutting	C 2-3	Helical 40°
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral flutes	NIT+VAP	< 2,5xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2103M02	38,49	23,68	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2103M02,5	38,88	24,11	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2103M03	29,48	18,09	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2103M04	30,34	18,79	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2103M05	30,84	19,12	M5	0,8	70	8	25	6	4,9	3	4,2
A2103M06	34,83	19,73	M6	1	80	10	30	6	4,9	3	5
A2103M08	37,34	23,15	M8	1,25	90	14	35	8	6,2	3	6,8
A2103M10	45,22	28,04	M10	1,5	100	16	39	10	8	3	8,5
A2103M12	55,65	34,50	M12	1,75	110	18	-	9	7	4	10,2
A2103M14	84,38	52,00	M14	2	110	20	-	11	9	4	12
A2103M16	79,33	49,00	M16	2	110	22	-	12	9	4	14
A2103M18	136,96	85,00	M18	2,5	125	25	-	14	11	4	15,5
A2103M20	124,24	75,00	M20	2,5	140	25	-	16	12	4	17,5
A2103M22	189,37	117,00	M22	2,5	140	27	-	18	14,5	4	19,5
A2103M24	162,78	101,00	M24	3	160	30	-	18	14,5	4	21
A2103M27	226,84	141,00	M27	3	160	30	-	20	16	5	24
A2103M30	273,38	170,00	M30	3,5	180	35	-	22	18	5	26,5

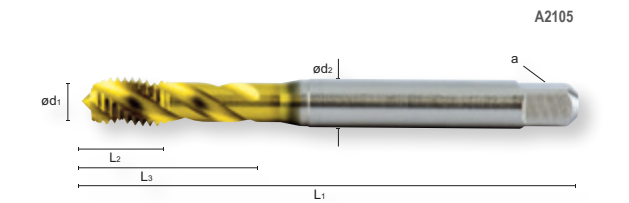
Universal taps - m-pitch
proper chamfer form for through
holes hsse - tin



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	HSSE	DIN 371 DIN 376		Cutting	B 4-5	Straight
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral pointed	TiN	< 3xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2104M02	50,42	31,26	M2	0,4	45	4	12	2,8	2,1	2	1,6
A2104M02,5	50,42	31,26	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2104M03	39,19	24,30	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2104M04	40,84	25,32	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2104M05	41,59	25,79	M5	0,8	70	8	25	6	4,9	3	4,2
A2104M06	47,24	29,29	M6	1	80	10	30	6	4,9	3	5
A2104M08	51,88	32,17	M8	1,25	90	14	35	8	6,2	3	6,8
A2104M10	65,94	41,00	M10	1,5	100	16	39	10	8	3	8,5
A2104M12	76,53	47,00	M12	1,75	110	18	-	9	7	4	10,2
A2104M14	104,53	65,00	M14	2	110	20	-	11	9	4	12
A2104M16	98,05	61,00	M16	2	110	22	-	12	9	4	14
A2104M18	151,49	94,00	M18	2,5	125	25	-	14	11	4	15,5
A2104M20	137,96	86,00	M20	2,5	140	25	-	16	12	4	17,5
A2104M22	230,65	143,00	M22	2,5	140	27	-	18	14,5	4	19,5
A2104M24	196,89	122,00	M24	3	160	30	-	18	14,5	4	21
A2104M27	253,93	157,00	M27	3	160	30	-	20	16	4	24
A2104M30	288,44	179,00	M30	3,5	180	35	-	22	18	4	26,5

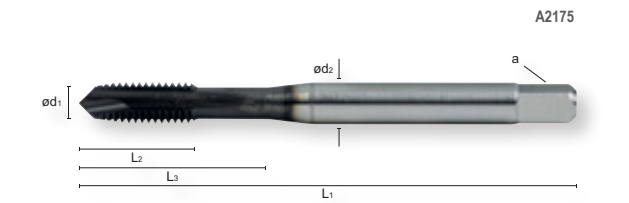
Universal taps - m-pitch
helix 40°for blind
holes hsse - tin



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	HSSE	DIN 371 DIN 376		Cutting	C 2-3	Helical 40°
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral flutes	TiN	< 2,5xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2105M02	50,86	31,53	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2105M02,5	50,44	31,27	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2105M03	45,12	27,97	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2105M04	46,65	28,92	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2105M05	48,48	30,06	M5	0,8	70	8	25	6	4,9	3	4,2
A2105M06	49,74	30,84	M6	1	80	10	30	6	4,9	3	5
A2105M08	55,69	34,53	M8	1,25	90	14	35	8	6,2	3	6,8
A2105M10	64,12	39,75	M10	1,5	100	16	39	10	8	3	8,5
A2105M12	81,84	50,00	M12	1,75	110	18	-	9	7	4	10,2
A2105M14	110,06	68,00	M14	2	110	20	-	11	9	4	12
A2105M16	111,61	69,00	M16	2	110	22	-	12	9	4	14
A2105M18	161,91	100,00	M18	2,5	125	25	-	14	11	4	15,5
A2105M20	188,55	117,00	M20	2,5	140	25	-	16	12	4	17,5
A2105M22	250,65	155,00	M22	2,5	140	27	-	18	14,5	4	19,5
A2105M24	218,28	135,00	M24	3	160	30	-	18	14,5	4	21
A2105M27	269,14	167,00	M27	3	160	30	-	20	16	5	24
A2105M30	312,56	194,00	M30	3,5	180	35	-	22	18	5	26,5

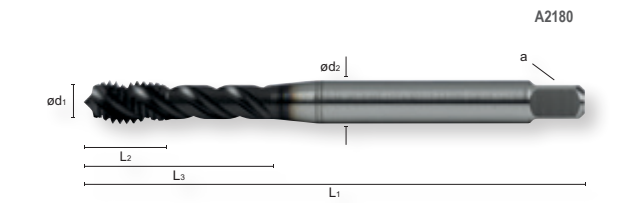
Universal taps - m-pitch
proper chamfer form for through holes
pm-p - kx1



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	6HX	PM-P	DIN 371 DIN 376		Cutting	B 4-5	Straight
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral pointed	KX1	< 3xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2175M3	44,60	25,79	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2175M4	44,40	25,67	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2175M5	44,40	25,67	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2175M6	44,20	25,54	M6	1	80	16	29	6	4,9	3	5
A2175M8	54,80	32,12	M8	1,25	90	18	33	8	6,2	3	6,8
A2175M10	64,30	40,00	M10	1,5	100	20	36	10	8	3	8,5
A2175M12	82,90	51,00	M12	1,75	110	24	-	9	7	4	10,2
A2175M14	111,70	69,00	M14	2	110	25	-	11	9	4	12
A2175M16	125,30	78,00	M16	2	110	28	-	12	9	4	14
A2175M18	170,90	106,00	M18	2,5	125	32	-	14	11	4	15,5
A2175M20	220,60	137,00	M20	2,5	140	32	-	16	12	4	17,5

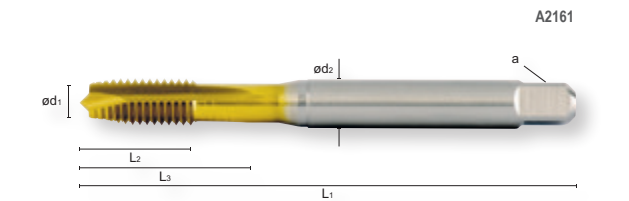
Universal taps - m-pitch
helix 45°for blind holes
pm-z - kx1



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	6HX	PM-Z	DIN 371 DIN 376		Cutting	C 2-3	Helical 45°
GEOMETRY	COATING	REAR	DEPTH	ROTATION			
Spiral flutes	KX1	Back tapering	< 3xD	RH			

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2180M3	46,00	28,52	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2180M4	46,00	28,52	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2180M5	46,00	28,52	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2180M6	46,00	28,52	M6	1	80	12	29	6	4,9	3	5
A2180M8	57,80	35,84	M8	1,25	90	14	33	8	6,2	3	6,8
A2180M10	74,00	44,00	M10	1,5	100	17	39	10	8	3	8,5
A2180M12	92,00	57,00	M12	1,75	110	18	-	9	7	4	10,2
A2180M14	123,40	77,00	M14	2	110	20,5	-	11	9	4	12
A2180M16	138,60	86,00	M16	2	110	20,5	-	12	9	4	14
A2180M18	170,70	111,00	M18	2,5	125	25,5	-	14	11	4	15,5
A2180M20	227,80	141,00	M20	2,5	140	25,5	-	16	12	4	17,5

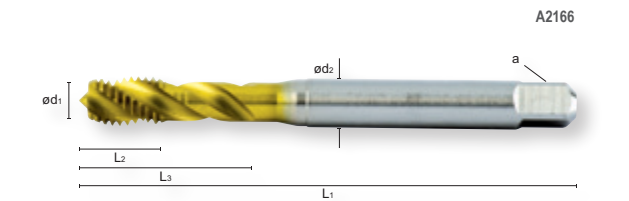
Power taps - m-pitch
proper chamfer form for through holes
pm - tin



P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	PM	DIN 371 DIN 376		Cutting	B 4-5	Straight
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral pointed	TiN	< 3xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2161M03	54,19	31,74	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2161M04	55,04	34,12	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2161M05	55,04	34,12	M5	0,8	70	15	25	6	4,9	3	4,2
A2161M06	68,83	43,00	M6	1	80	17	30	6	4,9	3	5
A2161M08	78,38	49,00	M8	1,25	90	20	35	8	6,2	3	6,8
A2161M10	104,19	63,00	M10	1,5	100	22	39	10	8	3	8,5
A2161M12	145,78	72,00	M12	1,75	110	24	-	9	7	3	10,2
A2161M16	165,84	103,00	M16	2	110	27	-	12	9	4	14
A2161M20	216,85	134,00	M20	2,5	140	32	-	16	12	4	17,5
A2161M24	282,54	175,00	M24	3	160	34	-	18	14,5	4	21

Power taps - m-pitch
helix 40°for blind holes
pm - tin



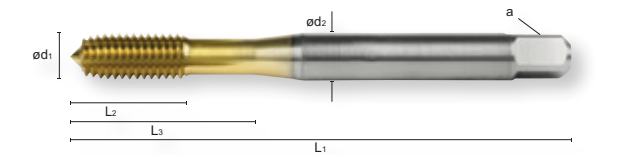
P	M	K	N	S	H	O	
							
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER	FLUTES
M	ISO 2 6H	PM	DIN 371 DIN 376		Cutting	C 2-3	Helical 40°
GEOMETRY	COATING	DEPTH	ROTATION				
Spiral flutes	TiN	< 2,5xD	RH				

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2166M03	67,60	42,00	M3	0,5	56	5	18	3,5	2,7	3	2,5
A2166M04	67,60	42,00	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2166M05	70,89	43,00	M5	0,8	70	8	25	6	4,9	3	4,2
A2166M06	78,38	49,00	M6	1	80	10	30	6	4,9	3	5
A2166M08	92,34	57,00	M8	1,25	90	12,5	35	8	6,2	3	6,8
A2166M10	118,54	73,00	M10	1,5	100	15	39	10	8	3	8,5
A2166M12	129,42	80,00	M12	1,75	110	17,5	-	9	7	3	10,2
A2166M16	174,90	108,00	M16	2	110	20	-	12	9	4	14
A2166M20	238,24	148,00	M20	2,5	140	25	-	16	12	4	17,5
A2166M24	306,54	190,00	M24	3	160	30	-	18	14,5	4	21

P	M	K	N	S	H	O
●	●	○	■	■	■	■
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	TOOL TYPE	CHAMFER
M	6HX	PM-K	DIN 2174 (371-376)		Forming	C 2-3
COATING	DEPTH	COOLANT	ROTATION			
TiN	< 3xD	Oil grooves	RH			

Power taps for thread rolling - m-pitch
with lubrication channels
pm-k - tin

CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2358M2	64,40	38,07	M2	0,4	45	7	11	2,8	2,1	3	1,85
A2358M2,5	53,20	32,98	M2,5	0,45	50	9	15	2,8	2,1	3	2,3
A2358M3	58,30	31,19	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2358M4	58,10	31,06	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2358M5	49,60	30,75	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2358M6	49,80	30,88	M6	1	80	16	29	6	4,9	5	5,55



CODE	Price List	HT	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2358M8	64,50	38,13	M8	1,25	90	18	33	8	6,2	5	7,4
A2358M10	76,70	48,00	M10	1,5	100	20	36	10	8	5	9,3
A2358M12	89,80	56,00	M12	1,75	110	24	-	9	7	5	11,2
A2358M14	115,60	72,00	M14	2	110	25	-	11	9	6	13,1
A2358M16	143,40	89,00	M16	2	110	28	-	12	9	6	15,1

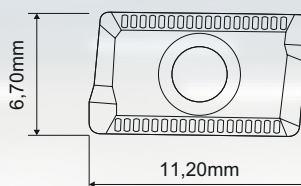
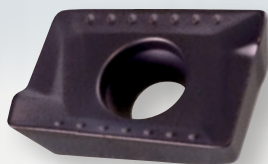
40%

On single milling cutter body

Special price

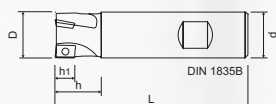
Buy 1000 inserts at net price

* Offer only valid for insert B4E21



inserts for straight shoulder - apkt 1003 - mr

CODE	Description	Grade	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
B4E2110MRPT25	APKT 1003PDR - MR	PT25	○	○	●			●	●			○
B4E2110MRPT30	APKT 1003PDTR - MR	PT30	●	●	●			●	○			○
B4E2110MRPT35	APKT 1003PDR - MR	PT35	●	●	○	○	○	○	○		○	

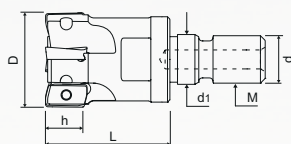


90° straight shoulder milling cutters with short Weldon shank

CODE	D mm	d mm	L mm	h mm	h1 mm	Z	Insert	Air hole
B4F3010Z1	10	16	80	24	10	1	APKT 1003	With
B4F3011Z1	11	16	80	24	10	1	APKT 1003	With
B4F3012Z1	12	16	80	24	10	1	APKT 1003	With
B4F3013Z1	13	16	80	24	10	1	APKT 1003	With
B4F3014Z1	14	16	80	24	10	1	APKT 1003	With
B4F3015Z2	15	16	85	25	10	2	APKT 1003	With
B4F3016Z2	16	16	85	25	10	2	APKT 1003	With
B4F3017Z2	17	16	85	25	10	2	APKT 1003	With
B4F3018Z2	18	20	85	25	10	2	APKT 1003	With
B4F3020Z3	20	20	90	25	10	3	APKT 1003	With
B4F3025Z4	25	25	95	25	10	4	APKT 1003	With
B4F3028Z4	28	25	95	25	10	4	APKT 1003	With
B4F3032Z5	32	25	95	26	10	5	APKT 1003	With

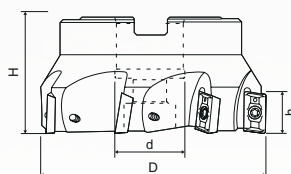
90° straight shoulder cutters long Weldon shank

CODE	D mm	d mm	L mm	h mm	h1 mm	Z	Insert	Air hole
B4F3116Z2	16	16	150	100	10	2	APKT1003	With
B4F3120Z3	20	20	150	100	10	3	APKT1003	With
B4F3125Z4	25	20	150	100	10	4	APKT1003	With
B4F3132Z5	32	25	150	95	10	5	APKT1003	With



90° straight shoulder cutters with screw-on shank

CODE	D mm	d1 mm	d mm	M	L mm	Z	Insert	Air hole
B4F3316Z2	16	8,5	13	M8	25	2	APKT 1003	With
B4F3320Z3	20	10,5	18	M10	30	3	APKT 1003	With
B4F3325Z4	25	12,5	21	M12	35	4	APKT 1003	With
B4F3332Z5	32	17	29	M16	43	5	APKT 1003	With



90° straight shoulder cutters with sleeve connection

CODE	D mm	d mm	H mm	h mm	Z	Insert	Air hole
B4F34100Z12	100	32	50	10	12	APKT 1003	With
B4F3440Z6	40	16	40	10	6	APKT 1003	With
B4F3450Z7	50	22	40	10	7	APKT 1003	With
B4F3463Z8	63	22	40	10	8	APKT 1003	With
B4F3480Z11	80	27	50	10	11	APKT 1003	With

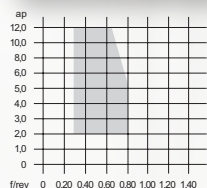
50%

On the insert box

KERFOLG

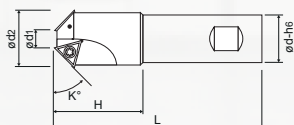
70%

On the milling cutter body for the purchase of 10 tooth inserts



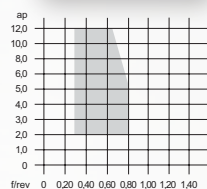
Positive turning inserts – T-shape

CODE	Denomination	Grade	Depth	Feed rate mm/rev	P	M	K	N	S	H	O
B1T56TCCMP10	TCMT 110204-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP11	TCMT 110204-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP12	TCMT 16T304-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP13	TCMT 16T304-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP14	TCMT 16T308-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP15	TCMT 16T308-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP16	TCMT 110208-CMP	4115	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP17	TCMT 110208-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP18	TCMT 110208-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1T56TCCMP19	TCMT 16T312-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■



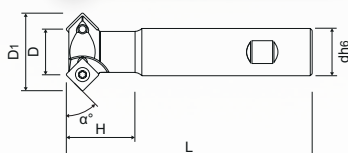
Insert-type chamfering cutters

CODE	D1 mm	D2 mm	L mm	H mm	d h6 mm	Z	Insert	Air hole
B8F20161,2	1,2	16	70	20	12	1	TC...1102	With
B8F20216,2	6,2	21	90	35	20	2	TC...1102	With
B8F203210,4	10,4	32,5	100	42	25	2	TC...16T3	With
B8F23165,4	5,4	16	70	20	12	1	TC...1102	With
B8F232615,8	15,8	26	90	35	20	2	TC...1102	With
B8F233520	20	35	100	39	25	2	TC...16T3	With



Positive turning inserts – S-shape

CODE	Denomination	Grade	Depth	Feed rate mm/rev	P	M	K	N	S	H	O
B1S55SCCMP10	SCMT 09T304-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP11	SCMT 09T308-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP12	SCMT 120404-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP13	SCMT 120408-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP14	SCMT 120408-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP15	SCMT 120404-CMP	4115	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP16	SCMT 120412-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP17	SCMT 120412-CMP	4135	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■
B1S55SCCMP18	SCMT 09T308-CMP	4125	1,00 - 1,50 - 2,50	0,12 - 0,16 - 0,21	●	○	■	■	■	■	■



Chamfering cutters with inserts

CODE	D mm	D1 mm	L mm	H mm	dh6 mm	Z	Insert	Air hole
B8F2124100	12	23,7	100	37	20	1	SCMT09T3	With
B8F2124200	12	23,7	200	37	20	1	SCMT09T3	With
B8F2129100	16	28,8	100	32	16	2	SCMT09T3	With
B8F2129200	16	28,8	200	32	16	2	SCMT09T3	With
B8F2142100	30	42,3	100	32	20	3	SCMT09T3	With
B8F2142200	30	42,3	200	32	20	3	SCMT09T3	With

UNIVERSAL BLADE WITH
EXCELLENT PERFORMANCE

Super 8



P	●	MANUAL ARCH SHAPE	○
M	○	SEMI AUTOMATIC ARCH SHAPE	●
K	●	AUTOMATIC ARCH SHAPE	●
N	○	AUTOMATIC DOUBLE COLUMN	●
S	○	AUTOMATIC HM HIGH SPEED	-
H	-		
O	-		

High-strength steel for maximum millimetre precision. Designed for intensive cycles, it reduces wear and ensures consistent quality standards.

Reliability and speed for your production. Reduces machine downtime and maximises tool life even on complex materials.

Blade height and thickness: 27 x 0.9 mm

Blade Length mm	Tooththing	Code	HT
2450	3/4	SU8272450Z34	28,00
2750	3/4	SU8272750Z34	31,00
2765	3/4	SU8272765Z34	31,00
2825	3/4	SU8272825Z34	31,00
2950	3/4	SU8272950Z34	32,00
3010	3/4	SU8273010Z34	33,00
3120	3/4	SU8273120Z34	34,00
3150	3/4	SU8273150Z34	34,00
3180	3/4	SU8273180Z34	35,00
3270	3/4	SU8273270Z34	36,00
3320	3/4	SU8273320Z34	36,00
3660	3/4	SU8273660Z34	39,00

Blade Length mm	Tooththing	Code	HT
2450	4/6	SU8272450Z46	28,00
2750	4/6	SU8272750Z46	31,00
2765	4/6	SU8272765Z46	31,00
2825	4/6	SU8272825Z46	31,00
2950	4/6	SU8272950Z46	32,00
3010	4/6	SU8273010Z46	33,00
3120	4/6	SU8273120Z46	34,00
3150	4/6	SU8273150Z46	34,00
3180	4/6	SU8273180Z46	35,00
3270	4/6	SU8273270Z46	36,00
3320	4/6	SU8273320Z46	36,00
3660	4/6	SU8273660Z46	39,00

Blade Length mm	Tooththing	Code	HT
2450	5/7	SU8272450Z57	28,00
2750	5/7	SU8272750Z57	31,00
2765	5/7	SU8272765Z57	31,00
2825	5/7	SU8272825Z57	31,00
2950	5/7	SU8272950Z57	32,00
3010	5/7	SU8273010Z57	33,00
3120	5/7	SU8273120Z57	34,00
3150	5/7	SU8273150Z57	32,00
3180	5/7	SU8273180Z57	35,00
3270	5/7	SU8273270Z57	36,00
3320	5/7	SU8273320Z57	36,00
3660	5/7	SU8273660Z57	39,00

CUTTING TOUGH MATERIALS
WITH LOW FRICTION

Magnum hlg



P	●	MANUAL ARCH SHAPE	-
M	●	SEMI AUTOMATIC ARCH SHAPE	-
K	-	AUTOMATIC ARCH SHAPE	○
N	-	AUTOMATIC DOUBLE COLUMN	●
S	●	AUTOMATIC HM HIGH SPEED	-
H	-		
O	-		

High-end system designed for maximum dimensional stability. Ideal for high-speed machining requiring tight tolerances and flawless surface finishes.

Constant productivity and minimal wear. The optimal solution for those looking for versatility on different thicknesses and total reliability in heavy workloads.

Blade height and thickness: 27 x 0.9 mm

Blade Length mm	Tooththing	Code	HT
2450	3/4	HLG272450Z34	36,00
2750	3/4	HLG272750Z34	39,00
2765	3/4	HLG272765Z34	40,00
2825	3/4	HLG272825Z34	40,00
2950	3/4	HLG272950Z34	42,00
3010	3/4	HLG273010Z34	43,00
3120	3/4	HLG273120Z34	44,00
3150	3/4	HLG273150Z34	45,00
3180	3/4	HLG273180Z34	45,00
3270	3/4	HLG273270Z34	46,00
3320	3/4	HLG273320Z34	47,00
3660	3/4	HLG273660Z34	51,00

Blade Length mm	Tooththing	Code	HT
2450	4/6	HLG272450Z46	36,00
2750	4/6	HLG272750Z46	39,00
2765	4/6	HLG272765Z46	40,00
2825	4/6	HLG272825Z46	40,00
2950	4/6	HLG272950Z46	42,00
3010	4/6	HLG273010Z46	43,00
3120	4/6	HLG273120Z46	44,00
3150	4/6	HLG273150Z46	45,00
3180	4/6	HLG273180Z46	45,00
3270	4/6	HLG273270Z46	46,00
3320	4/6	HLG273320Z46	47,00
3660	4/6	HLG273660Z46	51,00

Er collet chucks



CODE	Price List	HT	SK	ER	D mm	L mm
C0016416063	58,00	50,00	40	16	28	63
C0016416100	67,00	57,00	40	16	28	100
C0016425100	75,00	64,00	40	25	42	100
C0016425130	97,00	83,00	40	25	42	130
C0016432070	62,00	53,00	40	32	50	70
C0016432100	75,00	54,00	40	32	50	100
C0016432160	116,00	99,00	40	32	50	160
C0016440080	67,00	57,00	40	40	63	80
C0016532070	96,00	82,00	50	32	50	70
C0016532100	133,00	114,00	50	32	50	100

CODE	Price List	HT	HSK	ER	L
C2016616100	109,00	93,00	63	16	100
C2016132100	147,00	126,00	100	32	100
C2016632100	109,00	93,00	63	32	100

CODE	Price List	HT	BT	ER	D mm	L mm
C1016132130	108,00	92,00	40	32	50	130
C1016416130	93,00	80,00	40	16	28	130
C1016425100	84,00	69,00	40	25	42	100
C1016432070	62,00	53,00	40	32	50	70
C1016432100	76,00	65,00	40	32	50	100



C0016



C1016



C2016

Weldon chucks mas 403 bt ad+b

CODE	Price List	HT	BT	D mm	L mm
C1046406100	58,00	50,00	40	6	100
C1046416063	47,00	40,00	40	16	63
C1046420063	47,00	40,00	40	20	63
C1046425090	52,00	44,00	40	25	90
C1046432100	56,00	48,00	40	32	100

Weldon chucks din 69871 sk ad+b

CODE	Price List	HT	SK	D mm	L mm
C0046406050	48,00	41,00	40	6	50
C0046408050	45,00	38,00	40	8	50
C0046410050	45,00	38,00	40	10	50
C0046410100	53,00	45,00	40	10	100
C0046412050	45,00	38,00	40	12	50
C0046416063	45,00	38,00	40	16	63
C0046420063	45,00	38,00	40	20	63
C0046425100	54,00	46,00	40	25	100
C0046432100	56,00	48,00	40	32	100
C0046532100	83,00	71,00	50	32	100



C0046



C1046



NEW

Self-centring vices for 5-axis centres

Compact Grip self-centring vices ideal for 5-axis machining centres.

Compact, rigid and precise, they have the great advantage of being able to offer 3 clamping systems in 1, making them usable on both 5-axis and 3-axis machines:

- Self-centring
- Single clamping
- Double clamping

Solid and compact construction with maximum openness in relation to overall dimensions.

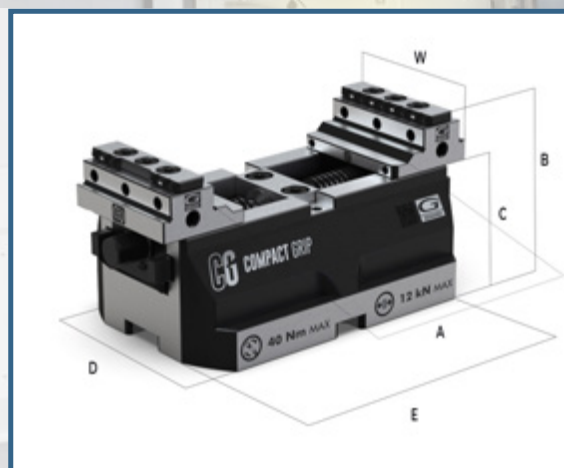
Rigidity and safety thanks to integral jaws.

Accuracy level between +/- 0m02 mm.

No wear - HRC 58 +/- 2

Reversible GRIP inserts, fully toothed on one side and unloaded in the centre on the other, for optimum workpiece grip and solidity.

Compatible with Zero Point system.



CODE	Price List	HT	Jaw width W mm	Maximum opening A mm	Vise height B mm	Body height C mm	Base width D mm	Base width E mm	Weight Kg
C632750X120	915,00	654,00	50	94	65	45	79,9	120	2,7
C632788X120	975,00	610,00	88	96	65	38	89,9	120	3,6
C632788X160	1.097,00	698,00	88	136	65	38	89,9	160	4,4
C632788X200	1.097,00	780,00	88	176	65	38	89,9	200	5,2
C6327123X210	1.826,00	1.090,00	123	183	89	57	124,9	210	10,9
C6327123X260	2.070,00	1.175,00	123	233	89	57	124,9	260	12,8
C6327123X310	2.435,00	1.440,00	123	283	89	57	124,9	310	14,8
C6327123X360	2.678,00	1.615,00	123	333	89	57	124,9	360	17

Presetting

Eye Trim Evo

High-performance, robust, precise and functional presetter. It guarantees a high degree of measurement repeatability and reproducibility. State-of-the-art electronics and scales significantly improve accuracy and performance. The screen is resistant to dust and liquids, ensuring reliable operation even in the harshest environments. The new generation of simple and intuitive software facilitates the interconnection between operators, instruments and machines on the shop floor.

CODE	Price List	HT	Measuring range X mm	Measuring range Z mm	Magnification	Weight Kg
C4716EVO	10.700,00	7.600,00	360	460	25x	105

Holders for tool setters

CODE	Price List	HT	Description
C471740	534,00	399,00	ISO 40 spindle holders
C471750	534,00	399,00	ISO 50 spindle holders
C471763	1.620,00	1.200,00	HSK 63 spindle holder



Complete bx series bench

CODE	Price List	HT	Dimensions mm	Colour	Scope Kg
P3151100	1.200,00	735,00	1500 x 700 x 870	Blu RAL5015	1000

METROLOGY



Why it is important to use calibrated tools in the workshop

*Having instruments
calibrated by an
Accredia-accredited
laboratory ensures
metrological traceability,
which confirms that
measurements are
accurate, comparable
and universally
recognised at national
and international level,
thereby guaranteeing
the quality and
reliability of results
for our customers.*



What are the risks associated with a lack of calibration?

1

Technical risk

Measuring instruments are subject to metrological drift caused by environmental factors, wear and tear, and use.

2

Economic risk

Even the slightest measurement errors can lead to rejects, rework and production inefficiencies, which have a direct impact on business costs.

3

Legal and regulatory risk

Uncalibrated instruments can lead to disputes and non-compliance with certification standards (such as ISO 9001 and IATF 16949).

Why choose our calibration services?

Controlled performance from the very first use

Calibrating the instruments before their first use ensures accurate results right from the start, confirming the accuracy of the new instrument and establishing the baseline for the instrument's metrological traceability and performance over time.



Elimination of disputes regarding products processed

Calibration ensures that instruments are accurate, thereby reducing waste and work that falls outside the tolerance limits.

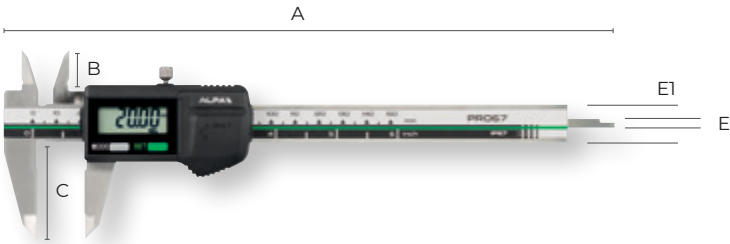




Digital calipers ip67

PRO67

Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.



Accredia calibration
certificate included



00275

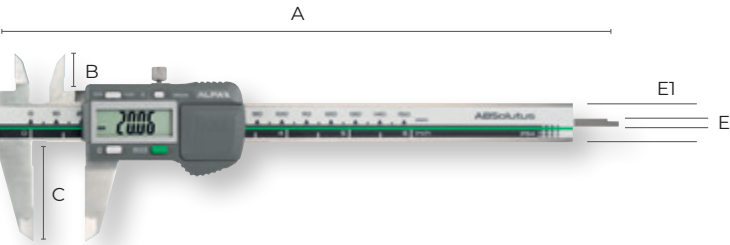
CODE	ALPA CODE	Price List	HT	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0007150P-A	AA017150P-A	245,00	155,00	■	0 ÷ 150	235	16	40	16	3,7 x 1,3
D0007150T-A	AA017150T-A	245,00	155,00	●	0 ÷ 150	235	16	40	16	Ø 1,5
D0007200-A	AA017200-A	274,00	206,00	■	0 ÷ 200	285	19	50	16	3,7 x 1,3
D0007300-A	AA017300-A	364,00	269,00	■	0 ÷ 300	400	21	60	17	3,7 x 1,3



Digital calipers ip54

ABSolutus

Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP54.
Electronics protected against dust and splash water.
Hardened stainless steel construction.
Slide with locking screw.



Accredia calibration
certificate included



00275

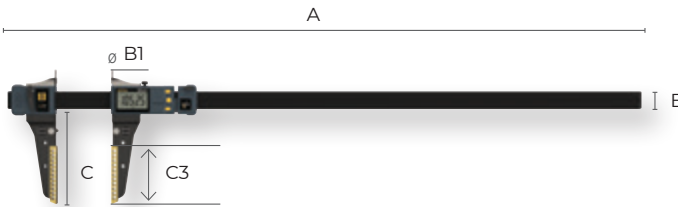
CODE	ALPA CODE	Price List	HT	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0009150P-A	AA019150P-A	450,00	90,00	■	0 ÷ 150	235	15,5	40	16	3,6 x 1,3
D0009150T-A	AA019150T-A	450,00	90,00	●	0 ÷ 150	235	15,5	40	16	Ø 1,5
D0009200-A	AA019200-A	499,00	134,00	■	0 ÷ 200	287	19,5	50	16	3,6 x 1,3
D0009300-A	AA019300-A	274,00	179,00	■	0 ÷ 300	390	21,5	60	16	3,6 x 1,3



ip67 aluminium digital calipers with bluetooth®
presets and moving beaks

Ultra light caliper UL4

Resolution 0.01 mm. IP67 protection.
Electronics protected against dust and brief immersion in water.
Reinforced aluminium construction.
Slide with locking screw.
Stainless steel nozzles with TiN coating.
Reinforced housing with internal prismatic guides. Measuring force displayed in both pull and push.



NEW

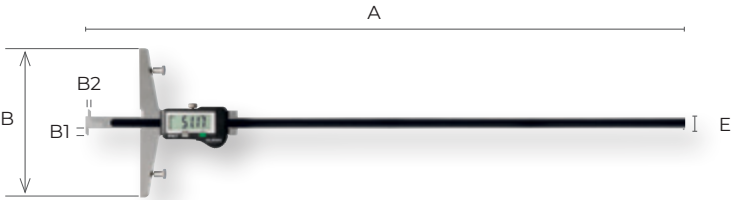
CODE	ALPA CODE	Price List	HT	Range mm	A mm	B1 mm	C mm	C3 mm	E mm	Accuracy mm
D0028400BT	AA046400BT	2.488,00	1.590,00	0 ÷ 400	796	Ø 5	202	124	38	0,030
D0028600BT	AA046600BT	2.459,00	1.790,00	0 ÷ 600	1001	Ø 5	202	124	38	0,040
D00281000BT	AA0461000BT	2.947,00	2.290,00	0 ÷ 1000	1411	Ø 5	202	124	38	0,050
D00281500BT	AA0461500BT	4.115,00	3.200,00	0 ÷ 1500	1926	Ø 5	202	124	38	0,090
D00282000BT	AA0462000BT	5.830,00	4.300,00	0 ÷ 2000	2441	Ø 5	202	124	38	0,120
D00282500BT	AA0462500BT	7.393,00	5.450,00	0 ÷ 2500	2956	Ø 5	202	124	38	0,150
D00283000BT	AA0463000BT	8.254,00	5.990,00	0 ÷ 3000	3471	Ø 5	202	124	38	0,200



Ip67 digital caliper with presets

MEGAline

Accuracy ± 0.03 mm (300).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Interchangeable pull/push in the same plane.
Ready for mobile bridge.



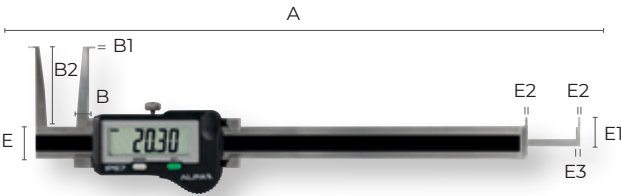
CODE	ALPA CODE	Price List	HT	Range mm	A mm	B mm	B1 mm	B2 mm	E mm
D0103300	AA064300	1.041,00	790,00	0 ÷ 300	410	150 x 12	7	2,5	12 x 4
D0103400	AA064400	1.161,00	835,00	0 ÷ 400	510	150 x 12	7	2,5	12 x 4
D0103500	AA064500	1.363,00	980,00	0 ÷ 500	610	150 x 12	7	2,5	12 x 4
D0103600	AA064600	1.509,00	1.085,00	0 ÷ 600	710	150 x 12	7	2,5	12 x 4
D0103800	AA064800	2.192,00	1.575,00	0 ÷ 800	910	150 x 12	7	2,5	12 x 4
D01031000	AA0641000	2.703,00	1.990,00	0 ÷ 1000	1110	150 x 12	7	2,5	12 x 4



Ip67 digital calipers grooves and channels with presets

MEGAline

Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic design.

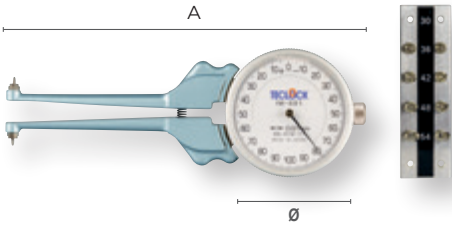


CODE	ALPA CODE	Price List	HT	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	E1 mm	E2 mm	E3 mm
D014610170	AA086170	787,00	605,00	10 ÷ 170	230	3,5	0,95	32	16,5 x 4	15	1	2
D014620180	AA086180	856,00	660,00	20 ÷ 180	230	8,5	0,95	32	16,5 x 4	15	1	2



High-precision, indoor quick gauges

Resolution 0.01 mm.
Patented shock-absorbing movement with only 2 mm travel for high-precision measurements.
Cast iron instrument body and arms.
Maximum thermal stability and repeatability.
Interchangeable conical-profile probes for entry into deep and narrow grooves.



CODE	ALPA CODE	Price List	HT	Range mm	Accuracy mm	Spare contact points	A mm	Ø mm
D2115020034	BB36534	442,00	310,00	20 ÷ 35	± 0,01	7 coppie M2.5	165	62
D2115030060	BB36560	466,00	330,00	30 ÷ 62	± 0,01	5 coppie M3.5	170	62
D2115055150	BB365150	494,00	350,00	55 ÷ 153	± 0,01	6 coppie M3.5	183	62



Altimeter

V1+

This model exceeds the core features of the V1 model, meeting the needs of those who wish to expand their measuring capabilities.

It implements bi-directional measurement, which increases versatility without requiring additional accessories, and the V1+ is also perfect for measuring diameters, both internal and external.

It also offers advanced fine adjustment and constant measuring force, both essential for improving measurement accuracy and repeatability.

Robust and easily transportable.

Clear and simple user interface.

Integrated counterweight in the column.

Fast and smooth carriage movement.

Designed and manufactured in Switzerland.

Diameter measuring capability.

Measuring force management.

RS232 connectivity.

The +GR specification in the technical code indicates granite base.

CODE	ALPA CODE	Price List	HT	Range mm	Base mm	A mm
D4251300P	GA0100300P	4.350,00	3.610,00	306	203 x 129	526
D4251600P	GA0100600P	4.820,00	3.880,00	611	205 x 156	831



A



Altimeter with bluetooth®

Hi_Cal V2 Smart

Resolution 0.001mm.

Accuracy 2.5+L/175mm.

Completely redesigned mechanics.

Compact and handy.

Switch on and measure, maximum simplicity.

Measurement of heights, thicknesses, depths, inside/outside diameters and wheelbases.

Integrated Bluetooth data transmission technology.

Mini-USB and serial connectors for data transmission via cable.

New generation progressive motorisation.

Extremely low measuring force (adjustable 0.2-0.3N).

Simultaneous display of diameter and wheelbase.

Quick probe change.

Wide range of accessories.

Small "A4 size" working surface.

CODE	ALPA CODE	Price List	HT	Range mm	Base mm	A mm
D4255155	GA030155	4.888,00	4.355,00	0 ÷ 155	92 x 147	381
D4255320	GA030320	5.337,00	4.755,00	0 ÷ 320	92 x 147	531
D4255470	GA030470	6.400,00	3.585,00	0 ÷ 470	112 x 172	681



A

NEW

NEW



Smooth p/np pads in sets

Hardened steel.
H7 tolerance.
Supplied in wooden case.



Accredia calibration
certificate included



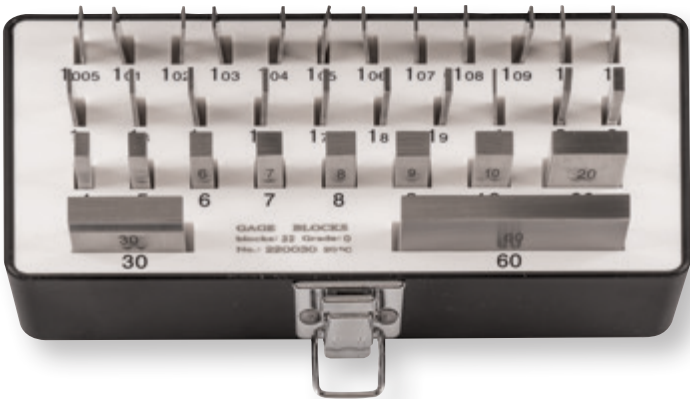
00275

CODE	ALPA CODE	Price List	HT	Set composition Ø mm	Pieces
D551615-A	FA188D-A	1.842,00	1.105,00	32-34-35-36-38-40-42-44-46-48-50-52-55-58-60	15
D551626-A	FA188C-A	2.425,00	1.450,00	3-4-5-6-7-8-10-11-12-13-14-15-16-17-18-20 21-22-23-24-25-26-27-28-29-30	26



Set of steel striker blocks

Conforms to ISO 3650 DIN 861.



Accredia calibration
certificate included



00275

CODE	ALPA CODE	Price List	HT	Classes	Pieces	Set pcs.	Dimensions mm	Progression mm
D5710322-A	FA010322-A	478,00	285,00	2	32	1 9 9 9 3 1	1,005 1,01 ~ 1,09 1,1 ~ 1,9 1 ~ 9 10 ~ 30 60	- 0,01 0,1 1 10 -
D5710472-A	FA010472-A	641,00	385,00	2	47	1 9 9 24 4	1,005 1,01 ~ 1,09 1,1 ~ 1,9 1 ~ 24 25 ~ 100	- 0,01 0,1 1 25
D5710471-A	FA010471-A	990,00	700,00	1	47	1 9 9 24 4	1,005 1,01 ~ 1,09 1,1 ~ 1,9 1 ~ 24 25 ~ 100	- 0,01 0,1 1 25



Portable rugosimeter with bluetooth

LITE surf

Pocket-size roughness tester with 90° rotatable diamond probe with optical signal transmission. Gaussian filter. Interchangeable tip. The extremely small dimensions (the smallest in circulation) and the speed of battery recharging, via USB cable, make this instrument a breakthrough in the design of form measuring instruments. Possibility of downloading the application to your mobile phone and computer in order to download data via Bluetooth.



CODE	ALPA CODE	Price List	HT	A mm	B mm	C mm	 g	Bluetooth
D7240LITEND	LA251LITEND	2.290,00	1.950,00	160,6	33,6	33,8	200	NO
D7240LITEBT	LA251LITEBT	2.566,00	2.250,00	160,6	33,6	33,8	200	Si

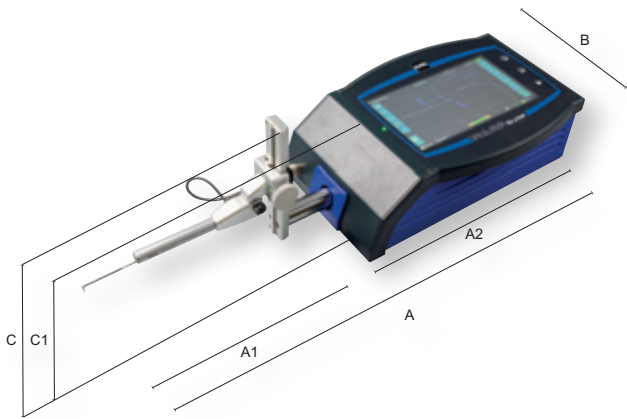


Bluetooth® portable rugoprobe

WARPsurf

This new roughness tester revolutionises roughness measurement. Large 7-inch touchscreen display with 16 million colours. 81 roughness parameters according to major international standards. Integrated CAD for profile analysis. Wide 5000µm measuring range in roughness and profilometry. Resolution 0.1nm (0.0001µm) over 5000µm. Automatic save last 6 measurements, manual save up to 1000 profilometry measurements and 4000 roughness measurements (graphs+parameters).

- Measuring range: Z = 5000 µm
- Resolution: 0.1 nm (0.0001 µm) over ± 1500 µm
- Cut-off length: 0.08 - 0.25 - 0.8 - 2.5 - 8 mm
- Number of cut-offs: 1 to 20 cut-offs (within 60 mm useful X)
- Scanning stroke: X=60 mm
- Probe: Differential inductive probe with interchangeable rods (Carbon end only)



CODE	ALPA CODE	Price List	HT	A mm	A1 mm	A2 mm	B mm	C mm	C1 mm	 g
D7246RP	LA253RP	47.050,00	13.900,00	520,2	182,4	272,5	176	141,7	86,2	3,65



High-performance rugosimeter

FACETest 80

The FACETest 80 roughness tester combines user-friendliness with the potential of a laboratory instrument, allowing complex surfaces, profiles and radiused parts to be measured with extreme precision thanks to the micrometer-shifting translator and free diamond probes. The intuitive touchscreen interface and colour display allow the operator to quickly set parameters and view interactive, customisable graphics that can be printed immediately via the integrated thermal printer. With its lightweight and compact TL90 translator and magnetic probe mount, the FACETest 80 ensures accurate positioning on the workpiece, making it ideal for both production departments and the metrology room.



CODE	ALPA CODE	Price List	HT	A mm	B mm	C mm	D mm	 g
D724302	LA255TL90	7.806,00	6.900,00	490	50	70	140	3,10



CODE	ALPA CODE	Price List	HT	Range mm	Accuracy mm	Depth mm
D1276025035	BA22535	2.427,00	1.645,00	25 ÷ 35	0,004	66
D1276035050	BA22550	2.479,00	1.690,00	35 ÷ 50	0,004	80
D1276050065	BA22565	2.232,00	1.730,00	50 ÷ 65	0,005	80
D1276065080	BA22580	2.232,00	1.730,00	65 ÷ 80	0,005	80
D1276080100	BA225100	2.539,00	1.890,00	80 ÷ 100	0,005	85

Ip67 digital micrometer for indoor use with bluetooth® and presets

Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
4 Presets.
Supplied with UKAS certificate of measuring heads and calibration rings.
High repeatability pistol trigger.
Ideal for series inspection.
Carbide contacts.
Measuring blind holes from Ø 12.5 mm.
Measuring heads for threads, grooves, deep holes and many other applications available on request.



CODE	ALPA CODE	Price List	HT	Range mm	Measuring heads Pcs.	Setting rings Pcs.
D1286006010SET	BA24210SET	2.075,00	1.590,00	6 ÷ 10	2	1
D1286006020SET	BA24220SETL	2.998,00	2.330,00	6 ÷ 20	5	3
D1286010020SET	BA24220SET	2.504,00	1.945,00	10 ÷ 20	3	2
D1286020050SET	BA24250SET	3.253,00	2.525,00	20 ÷ 50	3	2
D1286020100SET	BA242100SETL	5.343,00	4.155,00	20 ÷ 100	6	2
D1286050100SET	BA242100SET	3.629,00	2.825,00	50 ÷ 100	3	2

Ip67 quick-acting indoor digital micrometer set with bluetooth® and presets

Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
4 Presets.
Supplied with UKAS certificate of measuring heads and calibration rings.
High repeatability pistol trigger.
Ideal for series testing.
Tungsten carbide contacts.
Measuring blind holes from Ø 12.5 mm.
Supplied in wooden case complete with calibration rings.

Linear scanning measuring machine

SCAN S25

Linear scanning optical measuring machine for cylindrical small parts with a measuring range from Ø 0.2 mm to Ø 26 mm and lengths up to 200 mm. The system performs inspection of turned parts and rotating components for the automotive, aerospace and dental sectors in a matter of seconds. It integrates advanced technologies for optical analysis of external threads. Measuring ranges from 0.2 to 26 mm in diameter and 200 mm in length, with a resolution of 0.0001 mm and a load capacity of 3 kg. Certified accuracies are (0.9+D/100) µm on diameter and (2.5+L/200) µm on length. The system guarantees a repeatability of 0.5 µm for diameter and 0.8 µm for length.



CODE	Dimensions X - Y - Z mm
LA870S25	460 x 544 x 590
LA870S25T	460 x 544 x 590

* Price on request

Dynamic vertical optical measuring machine

SCAN S65

Diameter resolution 0.0001 mm, length resolution 0.0001 mm, diameter accuracy (1 + D[mm]/100) µm and length accuracy (3 + L[mm]/200) µm. Diameter repeatability 0.5 µm and length repeatability <1 µm. Axial movement speed up to 160 mm/s. Maximum workpiece weight 60 kg, machine weight 420 kg. Intuitive operator interface with 8" touchscreen. State-of-the-art optical and imaging technology for static and dynamic measurements, with dynamic LED illumination for clear feedback. Integrated calibration master with temperature sensors. Retractable roof for easy top loading of heavy components and rotating spindle for dynamic measurements. Reflex SCAN+ function for instant measurements without programming. Supplied complete with PC and software, ready for automation.



CODE	Model	Max. workpiece Ø mm	Max. piece length mm	Tilting axis
LA875S65	S65	65	350	-
LA875S65T	S65T	65	350	✓

* Price on request

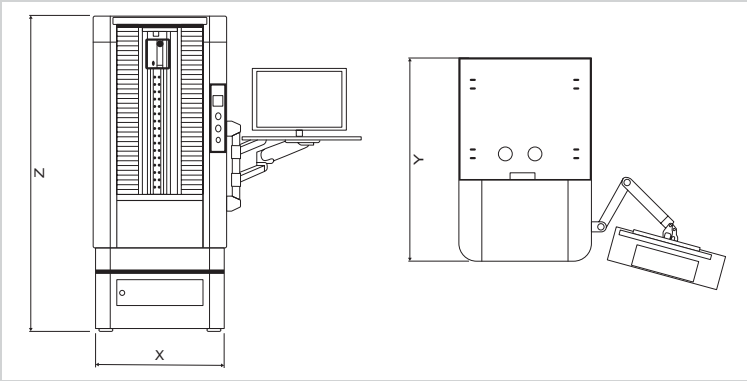
Optical measuring machine with 3d probe

SCAN S145

The SCAN S145 system incorporates a multi-sensor solution that combines optical and tactile measurements using a Renishaw SP25M probe, allowing the detection of non-visible features such as blind holes and slots. The configuration includes interchangeable styli, automated probe qualification routines and intuitive programming via a dedicated toolbar. Key applications include the measurement of hole shape, size and position, roundness and radial and axial eccentricity.



Resolution of 0.0001 mm for diameter and length with accuracies of $(1.5 + D/100) \mu\text{m}$ and $(4 + L/100) \mu\text{m}$ respectively. The instrument guarantees a repeatability of 0.5 μm on diameter and 1.0 μm on length, with clamping capacities up to $\varnothing 145 \text{ mm}$ and a maximum capacity of 100 kg. Operating speeds reach 160 mm/s for axial positioning and 360°/s for the rotary axis.



CODE	Model	Max. piece length mm	Probe measurement volume mm	 kg
LA880S145	S145	615	PX 615 / PY +60 ÷ -40 / PZ +130 ÷ -15	550
LA880S145L	S145L	1230	PX 1230 / PY +60 ÷ -40 / PZ +130 ÷ -15	670
LA880S145XL	S145XL	1800	PX 1230 / PY +60 ÷ -40 / PZ +130 ÷ -15	797

* Price on request

LUBRICANTS



How should coolant tanks be prepared ahead of the summer closure?

As the summer season approaches, many companies face a period of machine downtime, whether due to maintenance work, a drop in demand or simply holidays. Although shutting down machinery is common practice, neglecting the coolant tanks of machine tools – and consequently the coolant – can lead to serious problems when operations resume.

Maintaining the tanks takes little time, but is a crucial step for an effective shut-down. Here's how to do it properly.

Why is it essential to clean the tanks?

During daily operations, the tanks accumulate deposits of coolants, metal shavings and various residues. If left unused for weeks without maintenance, this can lead to:

- Bacterial growth and unpleasant odours
- Corrosion or oxidation of internal components
- Degradation and instability of the refrigerant
- Reduced fluid performance and possible skin irritation for operators



With a few simple preventative measures, you can maintain the quality of the fluid, reduce maintenance times and make restarting easier.

5 key steps to prepare your cnc machine coolant tank for the summer closure

1

Removing Surface Oil

Use a belt-type or coalescing oil separator to prevent the growth of bacteria that degrade the fluid

2

Removing Solid Residues

Remove as much sludge, swarf and debris as possible. Accumulated solids encourage microbial growth and may block the system when it is restarted.

3

Topping Up and Adjusting the Coolant Concentration

Check the concentration of the coolant and, if necessary, add fresh, correctly diluted coolant.

4

Use an Alkalising Additive (Optional)

If the machine is to be left idle for more than two weeks, or in particularly hot and humid environments, consider adding an alkalising additive that is compatible with your fluid.

5

Covering the tank

It is advisable to protect the tank with a breathable cover, such as a mesh or a non-sealing lid. This will reduce evaporation and allow for minimal ventilation, which helps to prevent condensation and maintain aerobic conditions.

What should you check when you return to work?



Check the condition of the fluid before starting the machine: look out for unusual odours, changes in colour and signs of separation.



Measure the pH and concentration, and adjust if necessary



Circulate the coolant for 15–30 minutes before starting production to re-oxygenate and homogenise it.



Preparing the tanks before the summer shutdown saves you time, money and avoids unexpected problems. It also extends the service life of the coolants and lubricants and ensures a smooth resumption of operations.

Volumetric mixer

MV

CODE	Price List	HT	Concentrazione	Flusso L/h	Pressione acqua Bar	Modello
H366010	943,00	726,00	1 - 10%	1600	da 0,7 a 8	Base
H366012	1.286,00	990,00	1 - 10%	1600	da 0,7 a 8	Completo

Water-miscible metalworking fluid

MULTIFLUID S UNI

CODE	Price List	HT	Quantità L	Confezione
H00440025	495,00	185,00	25	Tanica
H00440200	1.380,00	1.311,00	200	Fusto

Spill pallets in steel for drums

WX9914

CODE	Price List	HT	Capacità stoccaggio	Volume di raccolta l
P6915F1	553,79	290,00	1 fusto da 200 l	200
P6915F2	596,23	330,00	2 fusti da 200 l	230
P6915F4SQ	754,42	480,00	4 fusti da 200 l	330
P6915F4	995,42	550,00	4 fusti da 200 l	330
P6915F8	1.503,30	749,00	8 fusti da 200 l	650





Industrial vacuum cleaners

Mini Twistoil

Industrial vacuum cleaner for suction and separation of oil and metal swarf from machine tools, with liquid discharge by gravity. Equipped with 2 silenced bypass motors, separation system with grating basket for chip recovery, safety float with automatic stop and ball valve for easy discharge. Complete with vacuum gauge for checking filter status.

CODE	Price List	HT	Liquid capacity L	Solid capacities L	Power supply V - Hz	Power kw - HP	Max. depression mBar	Max. air flow rate L/min	Sound level dB(A)	Dimensions mm
H4101070	2.240,00	1.679,00	70	40	230-50/60	2,6 - 3,5	250	380	70	565 x 770 x 1210



Sanitising detergents for machine tools

COOLSAN

CODE	Price List	HT	Quantity L	Package
H35120005	46,75	44,00	5	Can
H35120025	184,25	172,00	25	Can

Biocide preservative additive for emulsions

CLEAN BATT B

CODE	Price List	HT	Quantity L	Package	Appearance concentrate	Density at 20°C kg/L	pH (5%)
H35180005	150,00	143,00	5	Can	Straw Yellow	1,060	3,4

Industrial vacuum cleaners

TWIST OIL EVO

Industrial vacuum cleaner designed to suck and separate oil and metal swarf from machining centre tanks. Equipped with three single-phase motors and a 200-litre tank, it allows continuous suction and discharge of liquids thanks to an integrated pump. The swarf is separated via a micro-perforated steel basket, which facilitates disposal and makes the filtered liquid reusable. Discharge is rapid thanks to the electric pump, with approximate suction times of 200 litres in 80 seconds and discharge times of 200 litres in 100 seconds. The motor is protected by an anti-oil cartridge and a vacuum gauge signals any blockages or the need to replace the filter.

- + Rapid tank emptying
- + No operator supervision required thanks to automatic overflow shut-off
- + Easy maintenance due to the absence of an external booster pump
- + Chip-to-liquid separation
- + Immediate and simple operation



Power supply	V - Hz	230-50/60
Max. depression	mBar	250
Max. air flow rate	L/min	570
Sound level	dB(A)	72
Dimensions	mm	1050 x 619 x 1670

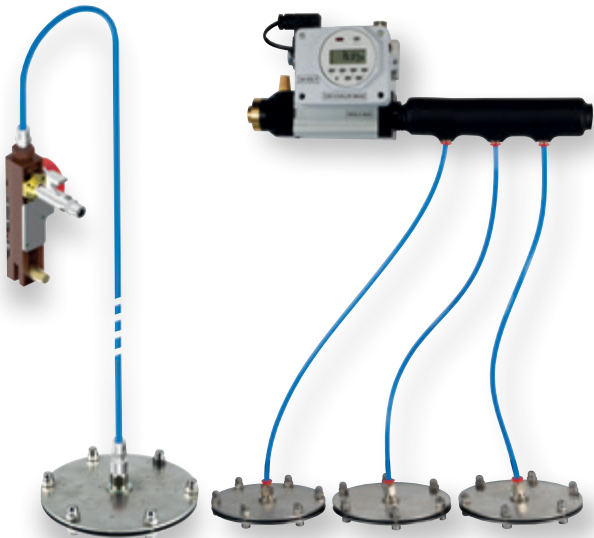
CODE	LANDOIL CODE	Price List	HT	Liquid capacity L	Solid capacities L	Power supply V - Hz	Power kw - HP	Max. depression mBar	Max. air flow rate L/min	Sound level dB(A)
H4102200	H4102200	4.800,00	3.648,00	200	35	230-50/60	3,9 - 5,2	250	570	72

Oxygenators for emulsions

OXI COOLER

OXI COOLER is a simple system for oxygenating and cooling emulsions. Just insert the bubbler tubes at the bottom of the tank and connect it to compressed air. The basic model, with a single bubbler, is combined with a Delta 40 cooler and includes a magnet for attachment to metal surfaces. The maxi model, with three bubblers, is powered by the Delta 40 Turbo Kompact and comes with a bracket to support the system, which includes the cooler, solenoid valve, and control unit.

CODE	Price List	HT	Pressure Bar	Outlet temperature °C	Air NL/min	Weight kg
H3267001	334,00	250,00	1,5	-1,5	32	1,2
			3	-15	74	
			4	-21,5	94	
			5	-24,5	115	
H3267003	954,00	713,00	1,5	-9	170	3,2
			3	-19	290	
			4	-22	410	
			5	-24	525	





Neat cutting oil

MIRZAN EP

Mirzan EP is a synthetic, mineral oil-free cutting fluid, ideal for heavy-duty machining of steel, stainless steel and aluminium alloys. It provides excellent lubrication, long service life and EP protection.

CODE	CODE LANDOIL	Price List	HT	Series	Quantity L	Package
H11657150025	LN10200025	470,00	161,00	715	25	Tanica
H11657150200	LN10200200	4.480,00	1.121,00	715	200	Fusto
H11657220025	LN10210025	445,00	137,00	722	25	Tanica
H11657220200	LN10210200	980,00	931,00	722	200	Fusto
H11657300025	LN10220025	460,00	152,00	730	25	Tanica
H11657300200	LN10220200	4.400,00	1.045,00	730	200	Fusto

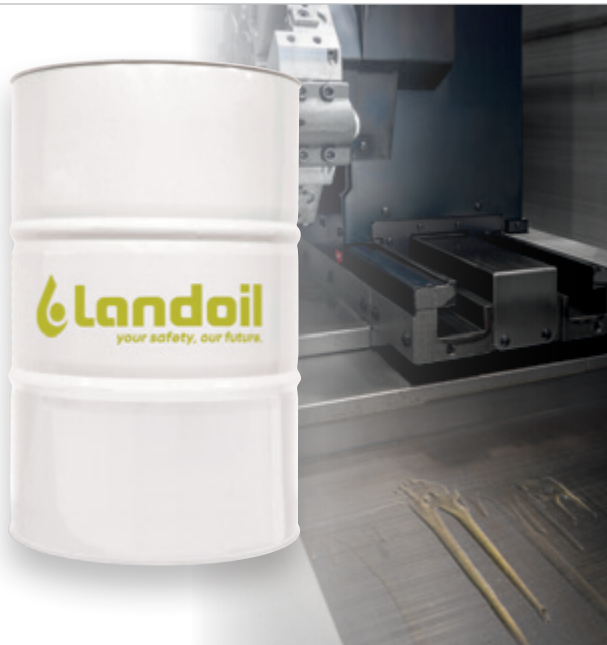


Slideway oils

CARRIER

Carrier is a lubricating oil for guides, slides and bearings with selected oils and zinc-free additives. It provides excellent adhesion, protection under heavy loads and high performance on hydrostatic guides, hydraulic circuits and slow-running bearings.

CODE	CODE LANDOIL	Price List	HT	Series	Quantity L	Package
H2016320025	LN23000025	465,75	157,00	1	25	Tanica
H2016680005	LN23010005	64,70	58,00	2	5	Tanichetta
H2016680025	LN23010025	474,25	163,00	2	25	Tanica
H2016680200	LN23010200	4.470,00	1.112,00	2	200	Fusto
H2016220025	LN23030025	484,50	172,00	4	25	Tanica
H2016220200	LN23030200	4.252,00	1.189,00	4	200	Fusto



Hydraulic oils

ABACUS PLUS

ABACUS PLUS are mineral-based, zinc-free hydraulic lubricants with cleaning and antioxidant properties. They can also be used in moderately loaded gearboxes, are water-resistant and comply with ISO-L-HM, DIN 51524/2 HLPD and MB-Approval DBL 6721.

CODE	Price List	HT	Series	Quantity L	Package
H2021320025	490,00	180,00	32	25	Tanica
H2021320200	4.392,00	1.322,00	32	200	Fusto
H2021460005	67,00	63,00	46	5	Tanichetta
H2021460025	240,00	199,00	46	25	Tanica
H2021460200	4.465,00	1.391,00	46	200	Fusto
H2021680025	226,00	214,00	68	25	Tanica
H2021680200	4.700,00	1.615,00	68	200	Fusto

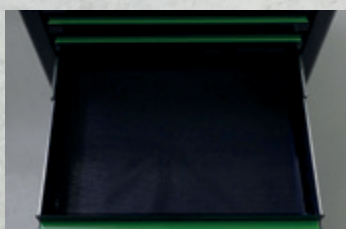


* Fino ad esaurimento scorte

MRO



One Trolley, Endless Options



Everything you need at your fingertips

7 drawers, each with a maximum load capacity of 40 kg, can hold a total of up to 1,000 tools



Make the most of your space

Organise your utensils efficiently and customise each drawer to your taste thanks to the modular system
WODEX MODULAR SYSTEM



Fully customisable

Tailor it to your needs. You have a wide range of options for putting together your selection.

Trolleys with MRO assortment



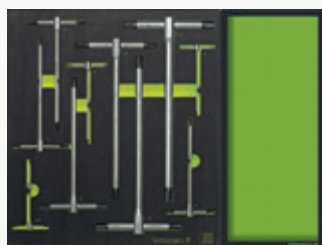
CODE	Price List	HT	Composition
E8260B7	834,30	450,00	WX9445/B7SCS Trolley
E7765241	2.382,00	1.344,00	WX9445/B7SCS trolley + 241-tool set

CODE	Price List	HT	Composition
E8215B7S	1.478,84	700,00	WX9410/B7SCS Trolley
E7767241	2.898,00	1.594,00	WX9410/B7SCS Trolleys + 241 Tool Set

+ Assortment of 241 tools



WX1060/SE16	Combination wrenches
WX4230/SE10	Screwdrivers for slotted and Phillips screws



WX2717/SE10	Hexagonal T-handle wrenches with fixed rod
WX9492	Empty tray



WX2095/SE71	1/4" and 1/2" socket wrenches
WX3750/SE4	Pliers and Cutters
WX9492	Empty tray



WX9505/SE6	Assorted tools
WX9512/SE12	Hacksaws and cutters



WX6620	LED modular torches
WX6621	LI-ION batteries
WX9520/SE17	Hexagonal wrenches STUBBY screwdrivers
WX4950/SE6	Steel chisels
WX9515/SE12	Assorted tools



WX7250/S25	HSS drills 1-13X0,5 kit 25 pcs.
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WX7360/S14	HSS taps and drills M3-M12 kit
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WX7400/S6	Countersinks DIN335C HSS-CO5 kit
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WX4590/31	Bits 1/4E kit 31 pcs
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Trolleys with MRO assortment



CODE	Price List	HT	Composition
E8260B7	834,30	450,00	WX9445/B7SCS Trolley
E7771205	2.382,00	1.344,00	WX9445/B7SCS Trolley + Set 205 Tools

CODE	Price List	HT	Composition
E8215B7S	1.478,84	700,00	WX9410/B7SCS Trolley
E7772205	2.898,00	1.594,00	WX9410/B7SCS trolley + Set 205 tools

+ Assortment of 205 tools



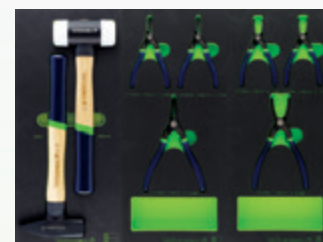
WX1060/SE12	Combination spanners
WX1010/SE8	Double open end wrenches
WX9512/SE12	Hacksaws and cutters



WX3750/SE4	Pliers and Cutters
WX4210/SE6	Screwdrivers +PH+PZ
WX2750/SE6	Hex grip wrenches



WX1350/SE5	Reverse ratchet wrenches
WX2290/SE40	Sockets 1/2" socket wrench kits
WX2080/SE41	1/4" Sockets and wrenches
WX4950/SE6	Steel chisels



WX3400/S3	Straight ring pliers
WX3410/S3	Straight ring pliers
WX9500/SE2	Hammer and mallet kit



WX7612/SE5	File kits
WX9510/SE3	Cutting and lighting tool kits
WX9600/SE10	Micro screwdrivers TG+PH+PZ
WX9691/SE7	Measuring tools



WX7360/S14	HSS taps and drills M3-M12 kit
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WX7250/S19	HSS BITS 1-10X0.5 KIT
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The standard equipment includes a rubber mat to be placed on the top shelf



Non-marking rubber wheels, Ø125 mm, comprising two fixed wheels and two swivel wheels with brakes



Premium Quality 3-shelf trolleys made of sheet steel with a blue RAL 5004 epoxy finish and a Ø25 mm tubular steel handle



Trolleys with 3 shelves

CODE	Price List	HT	Dimension mm	Capacity kg	Weight kg
P543501	360,00	205,00	1028 x 615 x 846	300	35

Anti-fatigue mats pvc

CODE	Price List	HT	Dimension cm	Thickness mm	Weight kg/m ²	Classification	Material	Colour
P7630NG10	86,34	76,00	60 x 91	14	5,5	Bfl-S1	PVC	Nero-Giallo
P7630NG20	260,15	208,00	91 x 150	14	5,5	Bfl-S1	PVC	Nero-Giallo
P7630NG30	544,89	409,00	91 x 300	14	5,5	Bfl-S1	PVC	Nero-Giallo
P7630NG40	2.347,28	1.877,00	60 x 2280	14	5,5	Bfl-S1	PVC	Nero-Giallo



Watertight collection tray with a metal mesh filter for separating liquids from solids, and a ball valve drain



Simple and safe automatic emptying of the container using a tilting lever, without having to get off the trolley

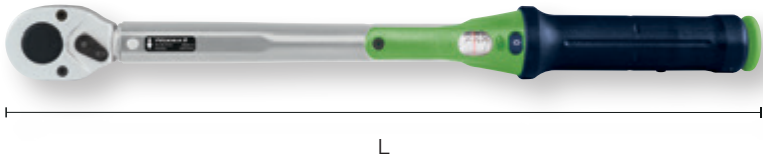


Tilting scrap containers designed to be lifted by a forklift truck



Tiltable buckets for scrap

CODE	Price List	HT	Model	Capacity kg	Weight kg	A x B x C mm	D mm	E mm	Inclination °	Faucet
P4511280	4.379,47	699,00	lt - 280	600	80	970 x 750 x 890	700	790	25,1	laterale
P4511300	4.538,34	750,00	lt - 300	600	102	1350 x 820 x 650	490	520	63,5	frontale
P4511500	4.697,44	850,00	lt - 500	1000	130	1350 x 920 x 910	700	740	57,6	frontale
P4511750	4.803,53	950,00	lt - 750	1350	152	1350 x 1070 x 1040	825	800	49,6	frontale
P45111000	2.045,74	1.099,00	lt - 1000	1700	181	1550 x 1070 x 1210	970	920	54	frontale



Torque wrenches click-action

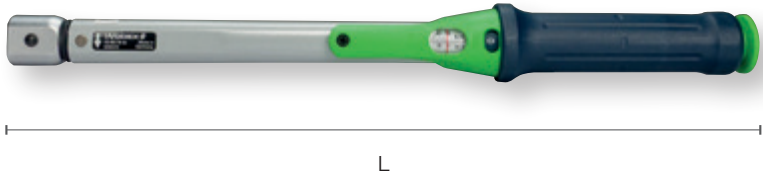
Premium quality mechanical torque wrenches Made in Germany with integrated ratchet for controlled right-hand tightening. Equipped with an easily readable Nm scale with micrometric adjustment, pre-set torque safety lock, reversible ratchet and steel construction with high-strength ergonomic handle.

- FEATURES:
- For clockwise controlled tightening applications with automatic mechanical disengagement when the preset torque is reached
 - Sensitive (click) and audible (click) signal when set torque is reached
 - Clamping accuracy ±3%, exceeding ISO standard requirements, with automatic reset when tool is released after disengagement

Wrenches are supplied with calibration certificate DIN EN ISO 6789-2:2017

CODE	Price List	HT	Capacity Nm	Coupling	Resolution Nm	L mm
E6701025	483,34	118,00	5 ÷ 25	1/4"	0,10	286
E6701050	492,64	124,00	10 ÷ 50	3/8"	0,25	349
E6701100	494,67	125,00	20 ÷ 100	1/2"	0,50	409
E6701200	490,00	128,00	40 ÷ 200	1/2"	1,00	500

NEW



Torque wrenches

Made in Germany torque wrenches for right- and left-handed tightening with rectangular plugs. Featuring a steel construction with ergonomic handle, they offer a double reading scale with micrometric adjustment and a locking button for maximum security of the set value.

- FEATURES:
- For clockwise and anti-clockwise controlled tightening applications with quick-change system and pin tool clamping
 - Mechanical disengagement when the preset torque is reached with sensory (click) and acoustic (click) signal
 - Clamping accuracy ±3%, exceeding ISO standard requirements, with automatic reset on release of the tool after disengagement

Wrenches are supplied with calibration certificate DIN EN ISO 6789-2:2017

CODE	Price List	HT	Capacities Nm	Clutch mm	Resolution Nm	L mm	Weight g
E6697050	206,00	137,00	10 - 50	9 x 12	0,25	323	400
E6697100	220,00	147,00	20 - 100	9 x 12	0,5	370	730



Torque wrenches

MANOSKOP® 730N mechanical click torque wrenches with quick and precise torque setting thanks to Quick Select, double stop signal, perfect readability of the double reading scale with colour-coded differentiation of indications in N-m/ft-lb or ft-lb/in-lb. Ergonomic 2-component handle with soft, oil- and grease-resistant inserts.

FEATURES.

- With reversible ratchet with NON-removable QuickRelease safety lock
- Tightening accuracy $\pm 4\%$.

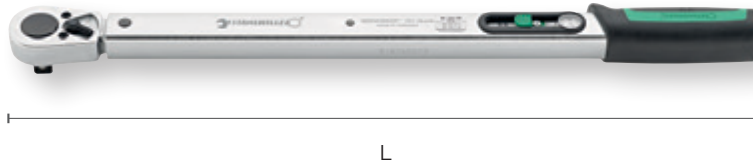
CODE	Price List	HT	Capacity Nm	Coupling	L mm
E6730010	592,94	367,60	20 ÷ 100	1/2"	429
E6730005	578,60	358,73	10 ÷ 50	3/8"	373
E6730020	672,86	417,17	40 ÷ 200	1/2"	526



Torque wrenches

MANOSKOP® 730N click torque wrenches offer fast and precise torque setting via the Quick Select system and a double stop signal. Featuring a highly readable double colour scale, they have an ergonomic two-component handle that is resistant to oil and grease.

CODE	Price List	HT	Capacity Nm	Coupling	L mm
E6729005	553,54	343,19	10 ÷ 50	3/8"	364
E6729010	566,68	351,34	20 ÷ 100	1/2"	420
E6729020	645,44	400,15	40 ÷ 200	1/2"	514
E6729040	909,05	563,61	80 ÷ 400	3/4"	657
E6729065	1.357,62	841,72	130 ÷ 650	3/4"	944



Torque wrenches click-action

MANOSKOP® 721 Quick mechanical torque wrenches with quick adjustment, double stop signal, double reading scale in N-m/ft-lb. Robust steel tube body protects all delicate components, ergonomic 2-component handle with soft, oil and grease resistant inserts.

- FEATURES:
- With NON-removable reversible ratchet
 - Tightening accuracy ± 4%.

Wrenches are supplied with calibration certificate UNI EN ISO 6789 1-2017
The E6708030 wrench has a ratchet with sliding square

CODE	Price List	HT	Capacity Nm	Coupling	L mm
E6708005	429,48	266,28	6 ÷ 50	3/8"	352
E6708015	434,87	267,76	30 ÷ 150	1/2"	452
E6708020	464,08	287,73	40 ÷ 200	1/2"	483
E6708030	534,48	331,38	60 ÷ 300	1/2"	552

NEW



Electronic calibration devices

Electronic devices for checking and adjusting screwdrivers and torque wrenches. They allow quick, simple and reliable tests to ensure production quality, with data transfer to PC via USB. The instrument can be used in both horizontal and vertical positions and has a large LCD display that can be rotated 180° for convenient reading from any angle.

- FEATURES:
- Right-hand and left-hand controlled torque tests with 3 selectable units of measurement (Nm, ft-lb, in-lb)
 - Storage of up to 200 records with data transfer via free downloadable CheckMaster software
 - Versatile power supply via power supply unit, standard or rechargeable batteries

The instruments are supplied with a test certificate.

CODE	Price List	HT	Capacities Nm	Coupling	Adapters	Accuracy	Dimensions mm
E67900010	2.686,40	1.665,57	0,25 - 10	1/4"	-	+/- 1%	120 x 167 x 124
E67900400	2.844,38	1.761,66	40 - 400	3/4"	1/2"	+/- 1%	120 x 167 x 124
E67900100	2.686,40	1.665,57	5 - 135	3/8"	1/4"	+/- 1%	120 x 167 x 124
E67900800	2.897,65	1.796,54	80 - 800	3/4"	-	+/- 1%	120 x 167 x 124
E67901500	3.349,42	2.057,85	150 - 1500	1"	-	+/- 1%	120 x 167 x 124

Dynamometric screwdrivers

The interchangeable blade torque screwdrivers with fixed mechanical torque are designed for controlled right-hand tightening in mass production and repetitive applications, also allowing unscrewing operations with a force 30% higher than the set torque. The tool emits a clearly audible click when the factory setting is reached and offers a high degree of versatility with the option of using 1/4" hexagonal shank bit adapters, 1/4" socket wrench adapters or extra-thin interchangeable blades from the 2859 Series.



CODE	Price List	HT	Capacity Nm	Tolerance +/-	Coupling	L mm	Ø max mm	For blade series
E641504	452,00	91,00	0,4	6%	4 mm	112	23	2859
E641505	452,00	91,00	0,5	6%	4 mm	112	23	2859
E641506	452,00	91,00	0,6	6%	4 mm	112	23	2859
E641508	452,00	91,00	0,8	6%	4 mm	112	23	2859
E641509	452,00	91,00	0,9	6%	4 mm	112	23	2859
E641511	464,30	98,00	1,1	6%	4 mm	119	30	2859
E641512	464,30	98,00	1,2	6%	4 mm	119	30	2859
E641515	464,30	98,00	1,5	6%	4 mm	119	30	2859

CODE	Price List	HT	Capacity Nm	Tolerance +/-	Coupling	L mm	Ø max mm	For blade series
E641520	464,30	98,00	2,0	6%	4 mm	119	30	2859
E641525	464,30	98,00	2,5	6%	4 mm	119	30	2859
E641530	476,40	105,00	3,0	6%	4 mm	126	36	2859
E641538	476,40	105,00	3,8	6%	4 mm	126	36	2859
E641550	488,40	112,00	5,0	6%	4 mm	132	41	2859
E641555	488,40	112,00	5,5	6%	4 mm	132	41	2859
E641560	488,40	112,00	6,0	6%	4 mm	132	41	2859
E641572	488,40	112,00	7,2	6%	4 mm	132	41	2859

Interchangeable blades series 2859 for dynamometric screwdrivers

Interchangeable blades for **Wiha iTorque®, TorqueVario®-S, TorqueFix® and easyTorque** torque screwdrivers.
Total length 175 mm, usable length 42 mm - (*) Maximum torque supported by the blade

Version for **Torx®** screws



CODE	Price List	HT	⊙	Coupling	Torque max(*) Nm
E643904	8,53	5,30	T4	4 mm	0,25
E643905	9,40	5,30	T5	4 mm	0,4
E643906	9,40	5,30	T6	4 mm	0,6
E643907	9,40	5,30	T7	4 mm	0,9
E643908	9,40	5,30	T8	4 mm	1,3
E643909	9,40	5,30	T9	4 mm	2,5
E643910	9,40	5,30	T10	4 mm	3,8
E643915	9,40	5,30	T15	4 mm	5,5
E643920	9,40	5,30	T20	4 mm	8,0
E643925	9,40	5,30	T25	4 mm	8,0

Interchangeable blades series 2859 for dynamometric screwdrivers

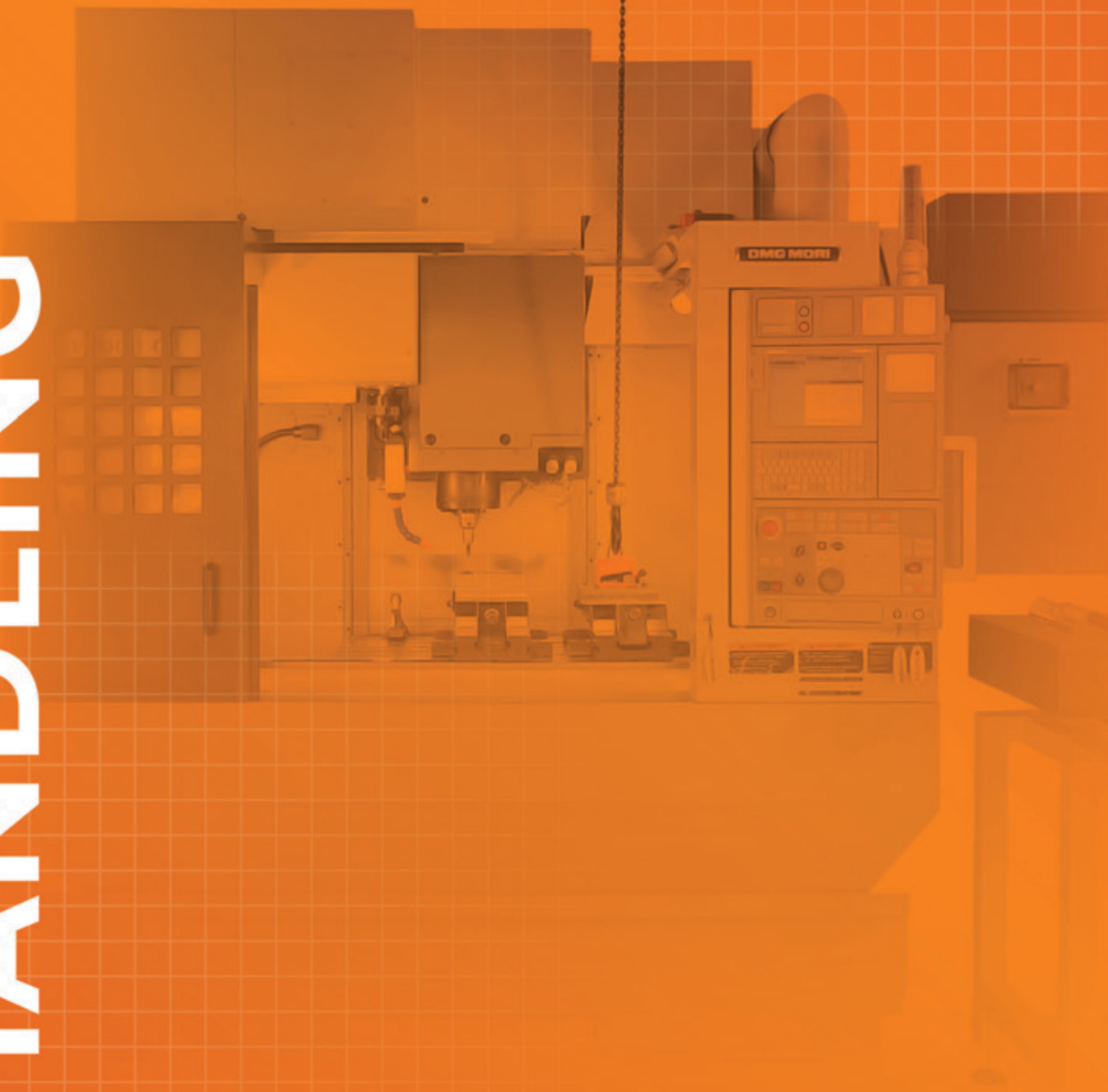
Interchangeable blades for **Wiha iTorque®, TorqueVario®-S, TorqueFix® and easyTorque** torque screwdrivers.
Total length 175 mm, usable length 42 mm - (*) Maximum torque supported by the blade

Version for **Torx-Plus®** screws



CODE	Price List	HT	⊙	Coupling	Torque max(*) Nm
E644405	9,20	5,50	5IP	4 mm	0,5
E644406	9,20	5,50	6IP	4 mm	0,8
E644407	9,20	5,50	7IP	4 mm	1,3
E644408	9,20	5,50	8IP	4 mm	2,0
E644409	9,20	5,50	9IP	4 mm	3,0
E644410	9,20	5,50	10IP	4 mm	4,5
E644415	9,20	5,50	15IP	4 mm	6,6
E644420	9,20	5,50	20IP	4 mm	8,0

HANDLING





REDUCED TIME
AND MAINTENANCE COSTS



USABLE BETWEEN
-15°C AND 50°C



**SUITABLE FOR USE
IN OUTDOOR
ENVIRONMENTS**

**FREE**

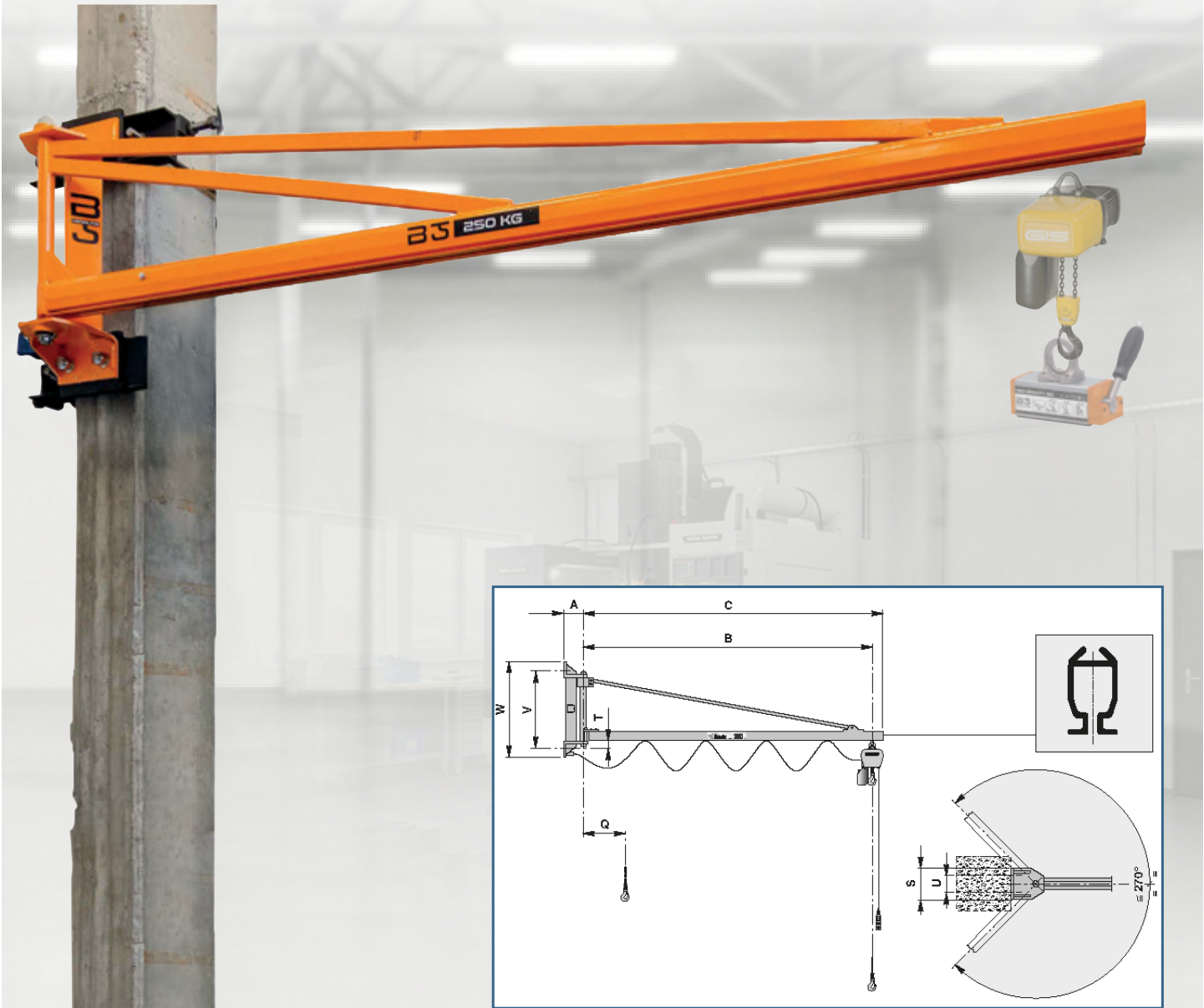
**with the hoist M0990DT,
card for the cycle
counter device for
gp - gch hoists**

ADVANTAGES:

- SUITABLE FOR A LARGE NUMBER OF OPERATIONS
- SUITABLE FOR OUTDOOR USE, IP65 PROTECTION
- CAN BE USED BETWEEN -15° AND +50 °C

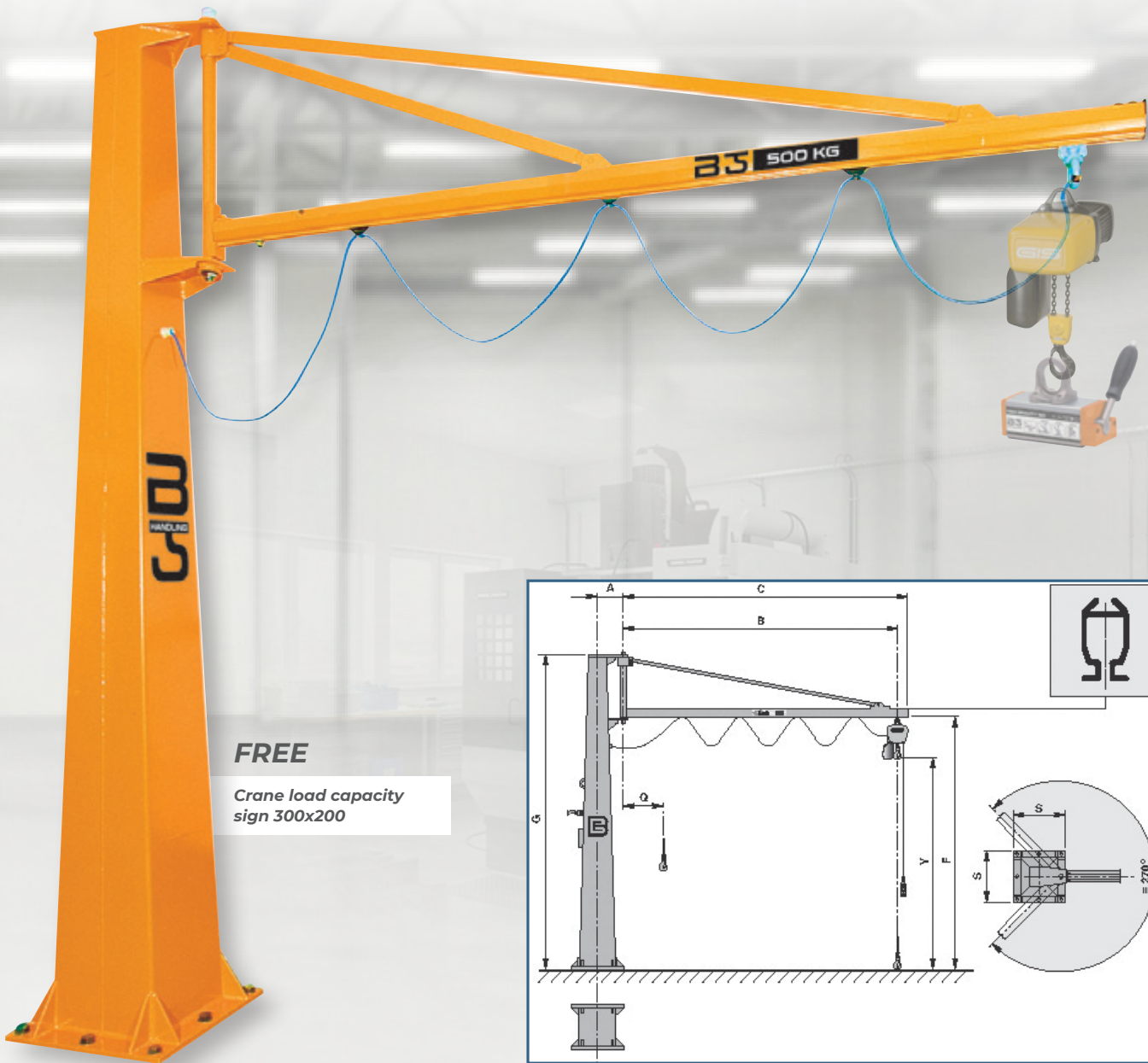
CODE	Price List	HT	PORTATA kg	MODELLO	CLASSE FEM (ISO)	VELOCITA' m/min	TRATTI CATENA N°	CORSA GANCIO m	POTENZA kW	INTENSITÀ A	Peso kg
M00051251NF2	2.372,47	1.650,00	125	GP250/1NF	4m (M7)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	2.372,47	1.650,00	200	GP250/1NF	3m (M6)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00052501NF2	2.372,47	1.650,00	250	GP250/1NF	2m (M5)	8/2	1	3	0,72 / 0,18	2,8 / 1,7	24
M00055002NF	2.482,54	1.750,00	500	GP250/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	25
M000510002NF	2.785,92	1.950,00	1000	GP500/2NF	2m (M5)	4/1	2	3	0,72 / 0,18	2,8 / 1,7	28
M000516002NF	3.972,04	2.700,00	1600	GP1000/2NF	3m (M6)	4/1	2	3	2,3 / 0,68	5,7 / 4,1	66
M000520002NF	3.972,04	2.700,00	2000	GP1000/2NF	2m (M5)	4/1	2	3	2,3 / 0,68	5,7 / 4,1	66

Wall mounted jib cranes with gis kb arm

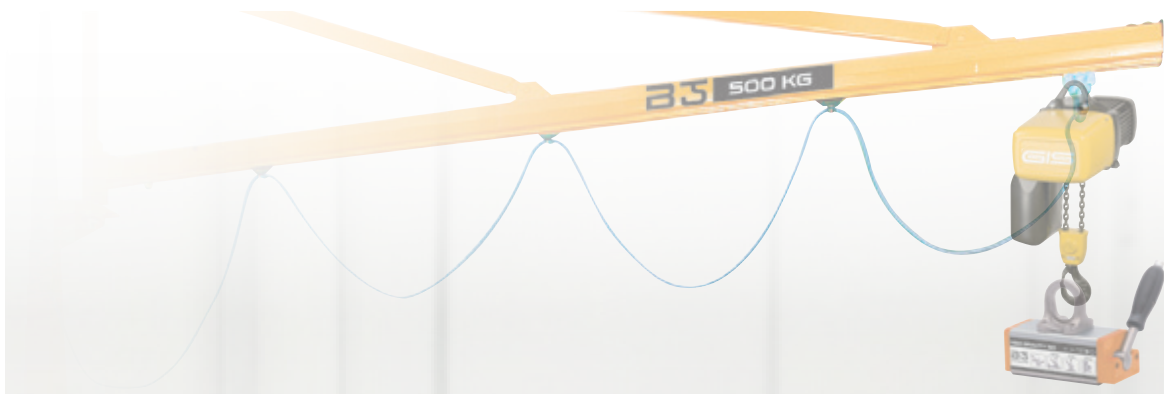


CODE	Price List	HT	LOAD CAPACITY kg	MODEL	ARM LENGTH C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T mm	U mm	V mm	W mm	ANCHORING SYSTEM**	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING MOMENT kgm
M13102004000	1.455,39	1.090,00	200	SM 200/4000	4030	3865	185	570	240	93	150	760	880	2	5	680	1115
M13102005000	1.643,88	1.230,00	200	SM 200/5000	5030	4850	185	670	240	86	150	760	880	2	6	840	1378
M13102006000	1.953,94	1.460,00	200	SM 200/6000	6030	5850	185	680	240	86	150	760	880	2	7	1000	1640
M13105004000	1.983,78	1.480,00	500	SM 500/4000	4035	3855	185	600	240	124	150	1010	1130	2	8	1200	2568
M13105005000	2.603,84	1.950,00	500	SM 500/5000	5045	4840	185	730	240	88	150	1012	1132	3	10	1500	3210
M13105006000	2.816,02	2.110,00	500	SM 500/6000	6045	5840	185	730	240	88	150	1012	1132	3	12	1800	3852
M131010004000	2.647,10	1.980,00	1000	SM1000/4000	4045	3720	185	765	240	88	150	1012	1132	3	16	2410	5158
M131010005000	2.990,09	2.240,00	1000	SM1000/5000	5045	4720	185	850	240	88	150	1012	1132	3	20	3000	6420
M131010006000	3.313,54	2.480,00	1000	SM1000/6000	6045	5720	185	850	240	88	150	1012	1132	3	23	3600	7704

Column-mounted jib cranes with gis system kb profile arm



CODE	Price List	HT	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
M10102004000	2.347,37	1.650,00	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
M10102005000	2.569,85	1.850,00	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
M10102006000	2.947,86	2.000,00	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330
M10105004000	4.390,89	3.250,00	500	SC 500/4000	4035	3855	320	3495	4320	600	620	2910	12	2	10	1550	380
M10105005000	5.225,19	3.900,00	500	SC 500/5000	5045	4840	320	3445	4320	730	620	2845	13	2	12	1910	530
M10105006000	5.439,43	4.100,00	500	SC 500/6000	6045	5840	320	3445	4320	730	620	2845	14	2	14	2290	550
M101010004000	6.411,75	4.850,00	1000	SC1000/4000	4045	3720	320	3445	4320	765	620	2845	17	2	19	3100	500
M101010005000	6.575,52	4.950,00	1000	SC1000/5000	5045	4720	320	3445	4320	850	620	2845	18	2	24	3850	630
M101010006000	6.928,84	5.000,00	1000	SC1000/6000	6045	5720	320	3445	4320	950	620	2845	19	2	28	4600	680



B·HANDLING 3

NEW

Universal magnetic lifters

NEO GRAVITY



CODE	Price List	HT	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg	Max. capacity on rebar Ø min - max mm	Max. capacity on rebar Kg	Dimensions mm	Eye dimensions mm	Weight Kg	Safety factor	Max. operating temperature
M8021150	399,00	299,00	8	150	50 - 200	75	161 x 64 x 124	Ø 30 - 42 H	3.6	3.5	80°C
M8021300	575,00	430,00	15	300	50 - 300	150	205 x 87 x 158	Ø 40 - 52 H	8.4	3.5	80°C
M8021600	865,00	645,00	20	600	80 - 400	300	288 x 112 x 189	Ø 50 - 62 H	19	3.5	80°C
M8021800	1.250,00	930,00	20	800	80 - 400	400	348 x 112 x 189	Ø 50 - 62 H	23	3.5	80°C
M80211000	1.600,00	1.200,00	25	1000	100 - 450	500	361 x 152 x 240	Ø 60 - 77 H	42	3.5	80°C

B·HANDLING 3

NEW

Magnetic lifters for round loads

NEO GRAVITY ROUND



CODE	Price List	HT	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg	Max. capacity on rebar Ø min - max mm	Max. capacity on rebar Kg	Dimensions mm	Eye dimensions mm	Weight mm	Safety factor	Max. operating temperature
M8023100	428,00	320,00	8	100	25 - 150	100	161 x 70 x 135	Ø 30 - 42 H	4	3.5	80°C
M8023225	655,00	490,00	10	225	50 - 205	225	205 x 98 x 172	Ø 30 - 42 H	9.5	3.5	80°C

B·HANDLING 3

NEW

Magnetic lifters for thin sheets and tubes

NEO GRAVITY SLIM



CODE	Price List	HT	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg	Max. capacity on rebar Ø min - max mm	Max. capacity on rebar Kg	Dimensions mm	Eye dimensions mm	Weight Kg	Safety factor	Max. operating temperature
M8024170	500,00	375,00	8	170	30 - 105	150	195 x 64 x 134	Ø 30 - 42 H	5.1	3.5	80°C
M8024330	750,00	560,00	10	330	40 - 160	300	263 x 87 x 170	Ø 40 - 52 H	12.4	3.5	80°C



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INDUSTRIAL TOOLS COMPANY



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