

FRIDRO

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35
*Let
z vami*

03/26

TOOLS

special offer

Valid until: 30.04.2026

Visit us at the Celje Trade Fair 2026



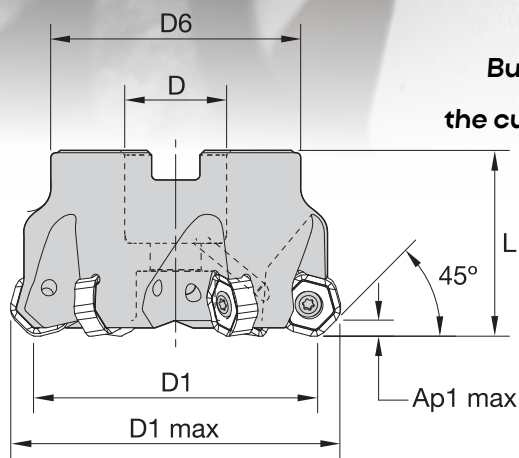
Celjski sejem

WIDIA  MADE IN GERMANY
239.12.012
M1200 Ø 125
max RPM 5050
193.492 3.5N

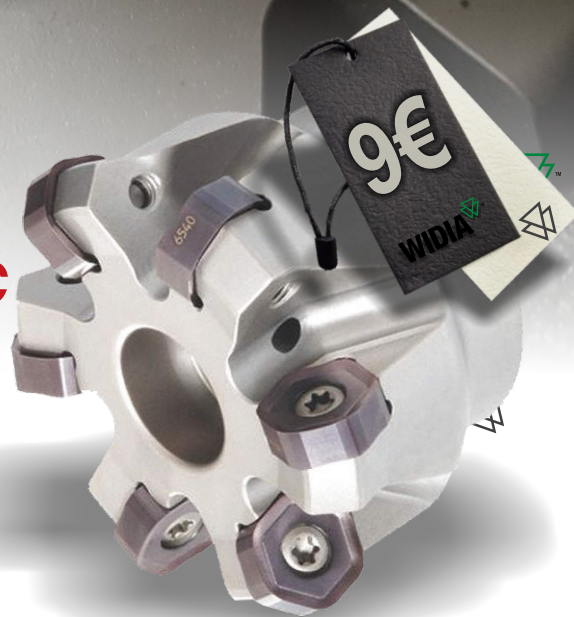
M1200 WIDIA



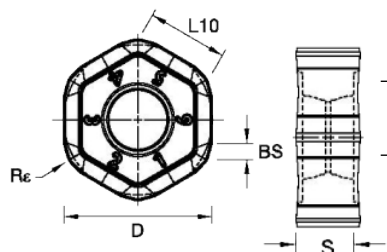
Face Mill M1200 Mini 45°



Buy a set of inserts and get
the cutter for **only 9,- €**



set number	cat. number	mark	D1	D1 max	D	D6	L	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001539	3957995	M1200D040Z04HN07	40	48,7	22	38	40	3,5	4	15800	yes	0,26	20
99001540	3957996	M1200D040Z05HN07	40	48,7	22	38	40	3,5	5	15800	yes	0,26	30
99001541	3957998	M1200D050Z05HN07	50	58,7	22	38	40	3,5	5	12700	yes	0,36	30
99001542	3958000	M1200D063Z04HN07	63	71,7	22	50	40	3,5	4	10100	yes	0,58	20
99001543	3958001	M1200D063Z06HN07	63	71,7	22	50	40	3,5	6	10100	yes	0,65	30
99001544	3958003	M1200D080Z05HN07	80	88,7	27	60	50	3,5	5	7900	yes	1,11	30
99001545	3958004	M1200D080Z08HN07	80	88,7	27	60	50	3,5	8	7900	yes	1,24	40
99001546	3958006	M1200D100Z06HN07	100	108,7	32	80	50	3,5	6	6300	yes	1,71	30
99001547	3958007	M1200D100Z09HN07	100	108,7	32	80	50	3,5	9	6300	yes	1,82	50
99001548	4138470	M1200D125Z08HN07	125	133,7	40	90	63	3,5	8	5050	yes	2,84	50



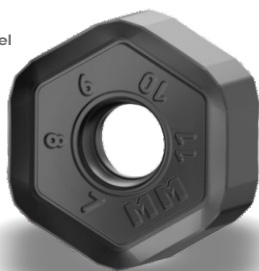
7114340

6,99

price/pcs

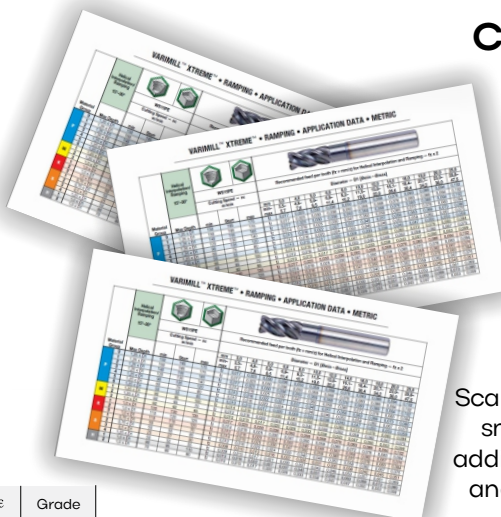
M

Stainless Steel



WU20PM

P
Steel



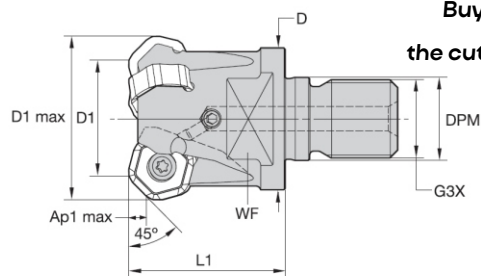
Cutting speeds and feeds



Scan the code with your
smartphone to view
additional specifications
and operating modes.

ID	cat. number	cutting edges	D	L10	S	BS	R6	Grade
HNPJ 0704ANSN-MM	7114340	12	12,7	7,332	4,407	1,454	1,20	WU20PM

Milling head M1200 Mini 45°+ set of inserts



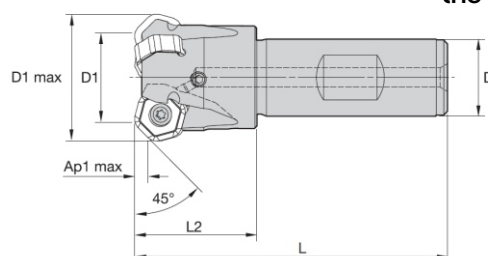
Buy a set of inserts and get
the cutter for **only 5,- €**



WIDIA

set number	cat. number	mark	D1	D1 max	D	DPM	G3X	L1	WF	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001549	3957840	M1200D025Z03M16HN07	25	33,7	29	17	M16	32	22	3,5	3	20000	yes	0,13	20
99001550	3957841	M1200D032Z03M16HN07	32	40,7	29	17	M16	40	22	3,5	3	17600	yes	0,2	20
99001551	3957842	M1200D032Z04M16HN07	32	40,7	29	17	M16	40	22	3,5	4	17600	yes	0,2	20

Milling head M1200 Mini 45° + set of inserts



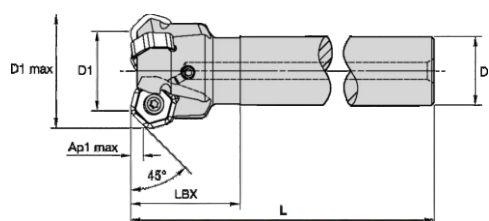
Buy a set of inserts and get
the cutter for **only 5,- €**



WIDIA

set number	cat. number	mark	D1	D1 max	D	L	L2	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001552	3958012	M1200D025Z03B20HN07	25	33,7	20	82	32	3,5	3	20000	yes	0,21	20
99001553	3958023	M1200D032Z03B25HN07	32	40,7	25	97	40	3,5	3	17600	yes	0,39	20
99001554	3958024	M1200D032Z04B25HN07	32	40,7	25	97	40	3,5	4	17600	yes	0,40	20

Milling head M1200 Mini 45° + set of inserts

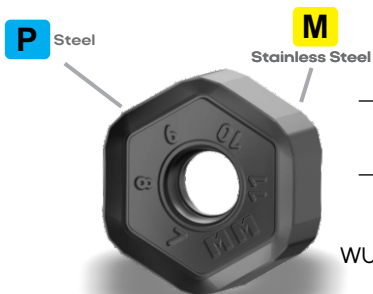


Buy a set of inserts and get
the cutter for **only 5,- €**



WIDIA

set number	cat. number	mark	D1	D1 max	D	L	L2	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001555	3958025	M1200D025Z02A20HN07L120	25	33,7	20	120	32	3,5	2	20000	yes	0,29	20
99001556	3958026	M1200D025Z03A20HN07L120	25	33,7	20	120	32	3,5	3	20000	yes	0,28	20
99001557	3958029	M1200D025Z02A25HN07L200	25	33,7	25	200	32	3,5	2	20000	yes	0,72	20
99001558	3958030	M1200D025Z03A25HN07L200	25	33,7	25	200	32	3,5	3	20000	yes	0,71	20
99001559	3958027	M1200D032Z03A25HN07L130	32	40,7	25	130	40	3,5	3	17600	yes	0,49	20
99001560	3958028	M1200D032Z04A25HN07L130	32	40,7	25	130	40	3,5	4	17600	yes	0,50	20



M

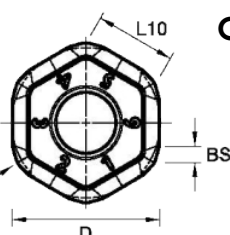
Stainless Steel

7114340

6,99

price/pcs

WU20PM



Cutting speeds
and feeds

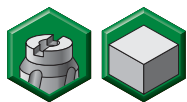


Scan the code with your smartphone to view
additional specifications and operating modes.

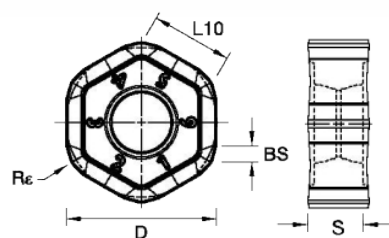
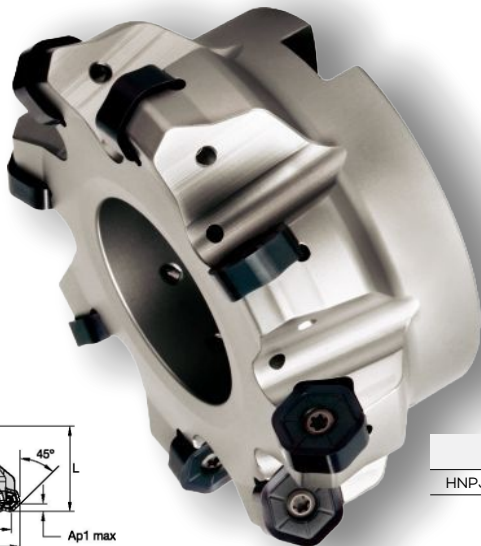
ID	cat. number	cutting edges	D	L10	S	BS	Re	Grade
HNPJ 0704ANSN-MM	7114340	12	12,7	7,332	4,407	1,454	1,20	WU20PM

WIDIA M1200

Face Mill M1200 45°



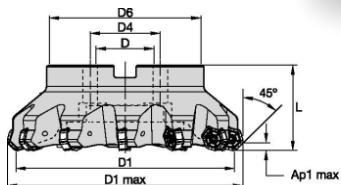
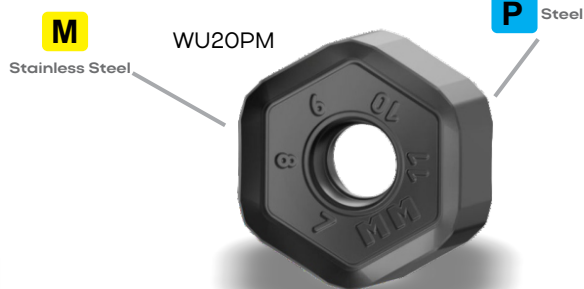
Buy a set of inserts and get
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7114395

8,90

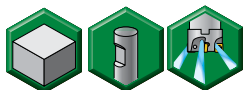
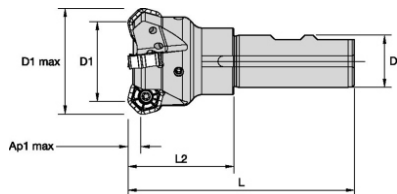
price/pcs



ID	cat. number	cutting edges	D	L10	S	BS	R6	Grade
HNPJO905ANSNMM	7114395	12	15.875	9.165	5.556	1.713	1.20	WU20PM

set number	cat. number	mark	D1	D1 max	D	L	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001533	3325693	M1200D050Z05HN09	50	61,0	22	40	4,5	5	12700	yes	0,33	30
99001534	3093594	M1200D063Z06HN09	63	74,0	22	40	4,5	6	10100	yes	0,56	30
99001535	3081507	M1200D080Z06HN09	80	91,0	27	50	4,5	6	7900	yes	1,07	30
99001536	3325694	M1200D100Z08HN09	100	111,0	32	50	4,5	8	6300	yes	1,68	40
99001537	3081508	M1200D125Z10HN09	125	135,9	40	63	4,5	10	5050	yes	2,77	50

Milling head M1200 45° + set of inserts



Buy a set of inserts and get
the cutter for **only 5,- €**



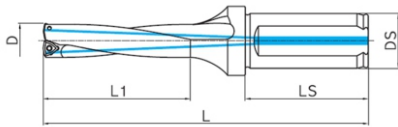
set number	cat. number	mark	D1	D1 max	D	L	L2	Ap1 max	Z	max RPM	coolant supply	kg	inserts in set
99001538	3325311	M1200D040Z04B25HN09	40	51,0	25	107	50	4,5	4	15800	yes	0,52	20

HSD Drill bit for solid material drilling

Set:

HSD drill bit + 10 inserts WC ...

- Drill bit for solid drilling
- With internal cooling and cylindrical shank



Optionally with inserts
for aluminium



price/set

from: **160,00** +



10x WC...
INSERTS

2xD

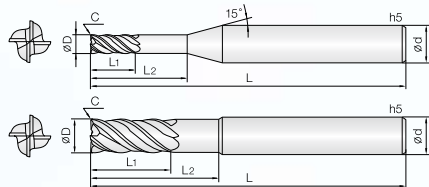
set No.	Drill designation	price/pcs	D	L1	L	Ds	Ls	+10 inserts
99000951	HSD-V13020D S20	205,00	13	29	99	20	50	WC.03T104
99000952	HSD-V13520D S20	205,00	13,5	30	100	20	50	WC.03T104
99000953	HSD-V14020D S20	205,00	14	31	101	20	50	WC.03T104
99000954	HSD-V14520D S20	205,00	14,5	32	102	20	50	WC.03T104
99000955	HSD-V15020D S20	205,00	15	33	103	20	50	WC.03T104
99000956	HSD-V15520D S20	205,00	15,5	34	104	20	50	WC.03T104
99000222	HSD-V16020D S25	160,00	16	35	116	25	50	WC.030204
99000957	HSD-V16520D S25	160,00	16,5	36	117	25	50	WC.030204
99000223	HSD-V17020D S25	160,00	17	39	116	25	50	WC.030204
99000958	HSD-V17520D S25	160,00	17,5	38	119	25	50	WC.030204
99000224	HSD-V18020D S25	160,00	18	41	118	25	50	WC.030204
99000959	HSD-V18520D S25	160,00	18,5	40	121	25	50	WC.030204
99000225	HSD-V19020D S25	160,00	19	43	120	25	50	WC.030204
99000960	HSD-V19520D S25	160,00	19,5	42	123	25	50	WC.030204
99000226	HSD-V20020D S25	160,00	20	45	122	25	50	WC.030204
99000961	HSD-V20520D S25	168,00	20,5	44	125	25	56	WC.040204
99000227	HSD-V21020D S25	168,00	21	47	126	25	56	WC.040204
99000962	HSD-V21520D S25	168,00	21,5	46	127	25	56	WC.040204
99000228	HSD-V22020D S25	168,00	22	49	128	25	56	WC.040204
99000963	HSD-V22520D S25	168,00	22,5	48	129	25	56	WC.040204
99000229	HSD-V23020D S25	168,00	23	51	130	25	56	WC.040204
99000964	HSD-V23520D S25	168,00	23,5	50	131	25	56	WC.040204
99000230	HSD-V24020D S25	168,00	24	51	132	25	56	WC.040204
99000965	HSD-V24520D S25	168,00	24,5	52	133	25	56	WC.040204
99000231	HSD-V25020D S25	168,00	25	53	134	25	60	WC.040204
99000966	HSD-V25520D S32	179,00	25,5	54	144	32	60	WC.050308
99000232	HSD-V26020D S32	179,00	26	55	145	32	60	WC.050308
99000967	HSD-V26520D S32	179,00	26,5	56	146	32	60	WC.050308
99000233	HSD-V27020D S32	179,00	27	57	147	32	60	WC.050308
99000968	HSD-V27520D S32	179,00	27,5	58	148	32	60	WC.050308
99000234	HSD-V28020D S32	179,00	28	59	149	32	60	WC.050308
99000969	HSD-V28520D S32	179,00	28,5	60	150	32	60	WC.050308
99000235	HSD-V29020D S32	179,00	29	61	151	32	60	WC.050308
99000970	HSD-V29520D S32	179,00	29,5	62	152	32	60	WC.050308
99000236	HSD-V30020D S32	179,00	30	63	153	32	60	WC.050308
99000237	HSD-V31020D S32	199,00	31	65	155	32	60	WC.06T308
99000238	HSD-V32020D S32	199,00	32	67	157	32	60	WC.06T308
99000239	HSD-V33020D S32	199,00	33	69	159	32	60	WC.06T308
99000240	HSD-V34020D S32	199,00	34	71	161	32	60	WC.06T308
99000241	HSD-V35020D S32	199,00	35	73	163	32	60	WC.06T308
99000242	HSD-V36020D S32	210,00	36	75	165	32	60	WC.06T308
99000243	HSD-V37020D S32	210,00	37	77	167	32	60	WC.06T308
99000244	HSD-V38020D S32	210,00	38	79	169	32	60	WC.06T308
99000245	HSD-V39020D S32	210,00	39	81	171	32	60	WC.06T308
99000246	HSD-V40020D S32	210,00	40	83	173	32	60	WC.06T308
99000971	HSD-V41020D S32	210,00	41	85	175	32	60	WC.06T308
99000972	HSD-V42020D S40	249,00	42	87	192	40	70	WC.080408
99000973	HSD-V43020D S40	249,00	43	89	194	40	70	WC.080408
99000974	HSD-V44020D S40	249,00	44	91	196	40	70	WC.080408
99000975	HSD-V45020D S40	249,00	45	93	198	40	70	WC.080408
99000976	HSD-V46020D S40	259,00	46	95	200	40	70	WC.080408
99000977	HSD-V47020D S40	259,00	47	97	202	40	70	WC.080408
99000978	HSD-V48020D S40	259,00	48	99	204	40	70	WC.080408
99000979	HSD-V49020D S40	259,00	49	101	206	40	70	WC.080408
99000980	HSD-V50020D S40	259,00	50	103	208	40	70	WC.080408

3xD

set No.	Drill designation	price/pcs	D	L1	L	Ds	Ls	+10 inserts
99000677	HSD-V13030D S20	205,00	13,0	42	112	20	50	WC.03T104
99000678	HSD-V13530D S20	205,00	13,5	44	114	20	50	WC.03T104
99000679	HSD-V14030D S20	205,00	14,0	45	115	20	50	WC.03T104
99000680	HSD-V14530D S20	205,00	14,5	47	117	20	50	WC.03T104
99000681	HSD-V15030D S20	205,00	15,0	48	118	20	50	WC.03T104
99000682	HSD-V15530D S20	205,00	15,5	50	120	20	50	WC.03T104
99000247	HSD-V16030D S25	160,00	16,0	51	132	25	56	WC.030204
99000683	HSD-V16530D S25	160,00	16,5	53	134	25	56	WC.030204
99000248	HSD-V17030D S25	160,00	17,0	54	135	25	56	WC.030204
99000684	HSD-V17530D S25	160,00	17,5	56	137	25	56	WC.030204
99000249	HSD-V18030D S25	160,00	18,0	57	138	25	56	WC.030204
99000685	HSD-V18530D S25	160,00	18,5	59	140	25	56	WC.030204
99000250	HSD-V19030D S25	160,00	19,0	60	141	25	56	WC.030204
99000686	HSD-V19530D S25	160,00	19,5	62	143	25	56	WC.030204
99000251	HSD-V20030D S25	160,00	20,0	63	144	25	56	WC.030204
99000687	HSD-V20530D S25	168,00	20,5	65	146	25	56	WC.040204
99000252	HSD-V21030D S25	168,00	21,0	66	147	25	56	WC.040204
99000688	HSD-V21530D S25	168,00	21,5	68	149	25	56	WC.040204
99000253	HSD-V22030D S25	168,00	22,0	69	150	25	56	WC.040204
99000689	HSD-V22530D S25	168,00	22,5	71	152	25	56	WC.040204
99000254	HSD-V23030D S25	168,00	23,0	72	153	25	56	WC.040204
99000690	HSD-V23530D S25	168,00	23,5	74	155	25	56	WC.040204
99000255	HSD-V24030D S25	168,00	24,0	75	156	25	56	WC.040204
99000691	HSD-V24530D S25	168,00	24,5	77	158	25	56	WC.040204
99000256	HSD-V25030D S25	168,00	25,0	78	159	25	56	WC.040204
99000692	HSD-V25530D S32	179,00	25,5	80	170	32	60	WC.050308
99000257	HSD-V26030D S32	179,00	26,0	81	171	32	60	WC.050308
99000693	HSD-V26530D S32	179,00	26,5	83	173	32	60	WC.050308
99000258	HSD-V27030D S32	179,00	27	84	174	32	60	WC.050308
99000694	HSD-V27530D S32	179,00	27,5	86	176	32	60	WC.050308
99000259	HSD-V28030D S32	179,00	28	87	177	32	60	WC.050308
99000695	HSD-V28530D S32	179,00	28,5	89	179	32	60	WC.050308
99000260	HSD-V29030D S32	179,00	29	90	180	32	60	WC.050308
99000696	HSD-V29530D S32	179,00	29,5	92	182	32	60	WC.050308
99000261	HSD-V30030D S32	179,00	30	93	183	32	60	WC.050308
99000262	HSD-V31030D S32	199,00	31	96	186	32	60	WC.06T308
99000263	HSD-V32030D S32	199,00	32	99	189	32	60	WC.06T308
99000264	HSD-V33030D S32	199,00	33	102	192	32	60	WC.06T308
99000265	HSD-V34030D S32	199,00	34	105	195	32	60	WC.06T308
99000266	HSD-V35030D S32	199,00	35	108	198	32	60	WC.06T308
99000267	HSD-V36030D S32	210,00	36	111	201	32	60	WC.06T308
99000268	HSD-V37030D S32	210,00	37	114	204	32	60	WC.06T308
99000269	HSD-V38030D S32	210,00	38	117	207	32	60	WC.06T308
99000270	HSD-V39030D S32	210,00	39	120	210	32	60	WC.06T308
99000271	HSD-V40030D S32	210,00	40	123	213	32	60	WC.06T308
99000697	HSD-V41030D S32	210,00	41	126	216	32	60	WC.06T308
99000698	HSD-V42030D S40	249,00	42	129	234	40	70	WC.080408
99000699	HSD-V43030D S40	249,00	43	132	237	40	70	WC.080408
99000700	HSD-V44030D S40	249,00	44	135	240	40	70	WC.080408
99000701	HSD-V45030D S40	249,00	45	138	243	40	70	WC.080408
99000702	HSD-V46030D S40	259,00	46	141	246	40	70	WC.080408
99000703	HSD-V47030D S40	259,00	47	144	249	40	70	WC.080408
99000704	HSD-V48030D S40	259,00	48	147	252	40	70	WC.080408
99000705	HSD-V49030D S40	259,00	49	150	255	40	70	WC.080408
99000706	HSD-V50030D S40	259,00	50	153	258	40	70	WC.080408

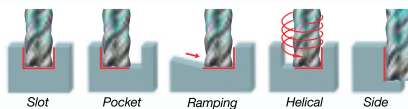


4SLE



4 Flutes High Speed Slotting End Mills for SUS

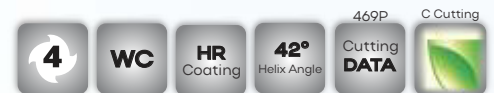
- Endmills for finishing and roughing of alloy steels, SUS, Inconel, Mild steels and various hard-to-cut materials
- Chip emission is excellent for slotting, and thick double core designed enables continuous machining without chattering
- Minimize fracturing by high TRS fine(0.5μm) WC grade
- TISIN-R coating provides wear resistance improvement as well as avoid edge stress in various applications



from: **1070**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø1 ~ 6	+0 ~ -0.01mm
	Ø8 ~ 20	+0 ~ -0.015mm

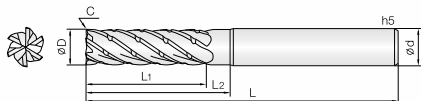
Condition	D Size	D Tolerance
ØD = Ød	Ø6	-0.005 ~ -0.015mm
	Ø8 ~ 12	-0.01 ~ -0.025mm
	Ø14 ~ 20	-0.015 ~ -0.03mm



Order Number	Diameter D	Length of cut L1	Chamfer C	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
4SLE030080S06	3	8	0,06	-	50	6	10,70
4SLE030210S06	3	8	0,06	21	60	6	12,50
4SLE040100S06	4	10	0,08	-	50	6	10,70
4SLE040210S06	4	10	0,08	21	60	6	12,50
4SLE060150S06	6	15	0,12	-	60	6	11,10
4SLE060210S06	6	15	0,12	21	60	6	12,60
4SLE080200S08	8	20	0,16	-	70	8	18,30
4SLE080270S08	8	20	0,16	27	70	8	20,40

Order Number	Diameter D	Length of cut L1	Chamfer C	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
4SLE100250S10	10	25	0,2	-	80	10	23,90
4SLE100350S10	10	25	0,2	35	80	10	26,90
4SLE120300S12	12	30	0,24	-	90	12	30,70
4SLE120400S12	12	30	0,24	40	90	12	33,70
4SLE160400S16	16	40	0,32	-	100	16	82,50
4SLE160500S16	16	40	0,32	50	100	16	86,90
4SLE200450S20	20	45	0,4	-	110	20	126,00
4SLE200550S20	20	45	0,4	55	110	20	132,00

5&6TROE



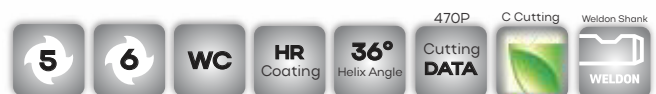
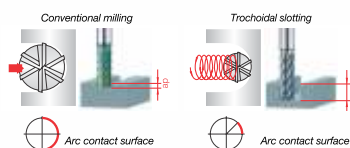
5&6 Flutes Trochoidal Milling End Mills

- Roughing Endmills for alloy steels, SUS, Inconel, Mild steels and various hard-to-cut materials
- Chip breaker designed for side flute and TISIN-R coating provides wear resistance improvement as well as avoid edge stress in various applications
- Variable helix Design for minimizing cutting resistance and long time process
- Minimize fracturing by high TRS fine(0.5μm) WC grade

from: **2050**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø6	+0 ~ -0.01mm
	Ø8 ~ 20	+0 ~ -0.015mm

Condition	D Size	D Tolerance
ØD = Ød	Ø6	-0.005 ~ -0.015mm
	Ø8 ~ 12	-0.01 ~ -0.025mm
	Ø14 ~ 20	-0.015 ~ -0.03mm

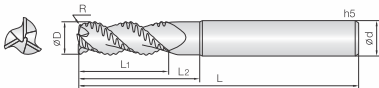


Order Number	Diameter D	Length of cut L1	Chamfer C	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
6TROE060200065	6	20	0,12	-	65	6	20,50
5TROE060260070	6	26	0,12	-	70	6	23,30
6TROE080260070	8	26	0,16	-	70	8	32,50
5TROE080340080	8	34	0,16	-	80	8	37,40
6TROE100220075	10	22	0,2	-	75	10	35,50
6TROE100330080	10	33	0,2	-	80	10	42,90
5TROE100430090	10	43	0,2	-	90	10	48,90
6TROE120270080	12	27	0,24	-	80	12	45,10

Order Number	Diameter D	Length of cut L1	Chamfer C	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
6TROE120390095	12	39	0,24	-	95	12	54,80
5TROE120510110	12	51	0,24	-	110	12	67,00
6TROE120600110	12	31	0,24	60	110	12	49,90
6TROE160360100	16	36	0,32	-	100	16	110,00
5TROE160680130	16	68	0,32	-	130	16	149,90
6TROE200450110	20	45	0,4	-	110	20	158,00
5TROE200850150	20	85	0,4	-	150	20	199,00

RTAC Coating

3AROC



3 Flutes 45° Helix Roughing End Mills for Aluminum

- High speed semi finishing and roughing Endmills for Aluminum, AL alloys, non-ferrous and non-metallic materials
- Minimize built up edge by chip breaker and deep pocket design
- TetraBond TAC coating provides excellent work surface finish by high hardness and low friction
- Minimize fracturing at high feed by high TRS fine WC grade

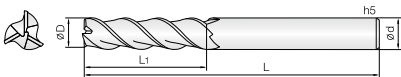
from: **28,20**
price/pc

D Size	D Tolerance
Ø 4 ~ 8	-0.02 ~ -0.04mm
Ø 10 ~ 20	-0.02 ~ -0.05mm

Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
3AROC040150S06	4	10	15	60	6	28,20
3AROC050200S06	5	15	20	60	6	28,20
3AROC060210S06	6	16	21	65	6	28,20

Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
3AROC080270S08	8	21	27	70	8	36,50
3AROC100310S10	10	26	31	75	10	47,60
3AROC120380S12	12	30	38	80	12	58,80

3ALEC



3 Flutes 45° Helix End Mills for Aluminum

- Endmills for Aluminum, AL alloys, non-ferrous and non-metallic materials
- Applied fine WC grade for excellent surface finish
- Various flute length design for covering wide range application
- TetraBond TAC coating provides excellent work surface finish by high hardness and low friction
- Minimize built up edge by double edge and deep pocket design

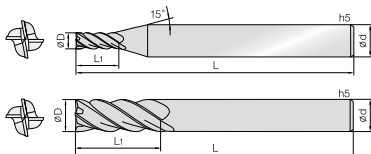
from: **13,60**
price/pc

D Size	D Tolerance
Ø 0.8 ~ 20	+0 ~ -0.01mm

Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
3ALEC020100S06	2	10	50	6	13,60
3ALEC030250S06	3	25	60	6	14,99
3ALEC040250S06	4	25	60	6	14,99
3ALEC050250S06	5	25	60	6	14,30
3ALEC060250060	6	25	60	6	14,99
3ALEC060450080	6	45	80	6	22,99
3ALEC080250065	8	25	65	8	23,20

Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
3ALEC080450090	8	45	90	8	27,00
3ALEC100250070	10	25	70	10	26,90
3ALEC100500100	10	50	100	10	37,60
3ALEC120260075	12	26	75	12	33,50
3ALEC120450090	12	45	90	12	42,20
3ALEC160300090	16	30	90	16	72,20
3ALEC160650120	16	65	120	16	87,40

4ALEC



4 Flutes High Speed End Mills for Aluminum

- Endmills for Aluminum, AL alloys, non-ferrous and non-metallic materials
- The powerful anti-chattering design minimizes the vibration of the endmill during side milling
- Excellent performance in semi-finishing and roughing by applying a double cutting edge
- The pocket is deeply designed to adsorption

from: **16,40**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø3 ~ 6	+0 ~ -0.01mm
	Ø8 ~ 20	+0 ~ -0.015mm

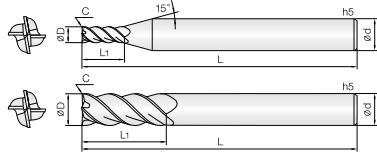
Condition	D Size	D Tolerance
ØD = Ød	Ø6	-0.005 ~ -0.015mm
	Ø8 ~ 12	-0.01 ~ -0.025mm
	Ø16 ~ 20	-0.015 ~ -0.03mm

4	WC	RTAC Coating	38° Helix Angle	Cutting DATA	Shield Edge
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Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4ALEC050200S06	5	20	55	6	16,40
4ALEC060200S06	6	20	55	6	16,40
4ALEC080250S08	8	25	65	8	27,90

Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4ALEC100300S10	10	30	75	10	35,90
4ALEC120350S12	12	35	80	12	45,99
4ALEC160500S16	16	50	110	16	91,20

4SUE



4 Flutes Non Symmetry End Mills for SUS

- Endmills for alloy steels, SUS, Ti/Ni base alloys, Inconel and hard-to-cut materials
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications
- Strong design for protection against chattering
- Excellent work surface finish by 4 flute and deep chip pocket
- Minimize fracturing at high feed by high TRS fine WC grade

from: **10,50**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø0.3 ~ 6	+0 ~ -0.01mm
	Ø7 ~ 20	+0 ~ -0.015mm

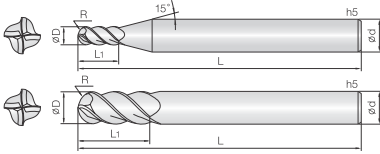
Condition	D Size	D Tolerance
ØD = Ød	Ø6	-0.005 ~ -0.015mm
	Ø8 ~ 12	-0.01 ~ -0.025mm
	Ø14 ~ 20	-0.015 ~ -0.03mm



Order Number	Diameter D	Length of cut L1	Chamfer C	Overall Length L	Shank Dia d	Price/pc
4SUE010025S04	1	2.5	0.01	50	4	10,50
4SUE010035S04	1	3.5	0.01	50	4	10,90
4SUE015055S04	1.5	5.5	0.015	50	4	10,90
4SUE020030S04	2	3	0.02	50	4	10,50
4SUE020080S04	2	8	0.02	50	4	10,90
4SUE030100S06	3	10	0.03	60	6	11,40
4SUE030120S06	3	12	0.03	60	6	11,90
4SUE040120S06	4	12	0.04	60	6	11,40
4SUE040160S06	4	16	0.04	60	6	11,90
4SUE050150S06	5	15	0.05	60	6	11,80

Order Number	Diameter D	Length of cut L1	Chamfer C	Overall Length L	Shank Dia d	Price/pc
4SUE050200S06	5	20	0.05	60	6	12,40
4SUE060180S06	6	18	0.06	60	6	13,00
4SUE060250S06	6	25	0.06	65	6	14,70
4SUE080240S08	8	24	0.08	70	8	23,00
4SUE080300S08	8	30	0.08	80	8	24,00
4SUE100250S10	10	25	0.1	80	10	29,80
4SUE100500S10	10	50	0.1	100	10	36,30
4SUE120300S12	12	30	0.12	90	12	35,80
4SUE120600S12	12	60	0.12	110	12	43,00
4SUE160350S16	16	35	0.16	100	16	79,50

4SUB



4 Flutes 45° Helix Ball End Mills for SUS

- Endmills for alloy steels, SUS, Ti/Ni base alloys, Inconel and hard-to-cut materials
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications
- Excellent work surface finish by 4 flute and deep chip pocket
- Minimize fracturing at high feed by high TRS fine WC grade

from: **17,30**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø1 ~ 16	+0 ~ -0.01mm

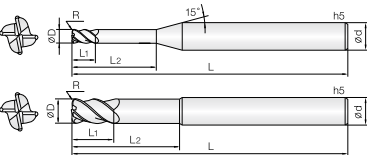
Condition	D Size	D Tolerance
ØD = Ød	Ø6 ~ 12	-0.005 ~ -0.015mm
	Ø16	-0.01 ~ -0.02mm



Order Number	Diameter RxD	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4SUB030080S06	1.5Rx3	8	60	6	17,30
4SUB040080S06	2Rx4	8	70	6	17,90
4SUB050100S06	2.5Rx5	10	80	6	19,10
4SUB060120S06	3Rx6	12	90	6	20,50

Order Number	Diameter RxD	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4SUB080140S08	4Rx8	14	100	8	29,40
4SUB100180S10	5Rx10	18	100	10	40,20
4SUB120220S12	6Rx12	22	110	12	52,50
4SUB160300S16	8Rx16	30	130	16	95,90

4SUCR



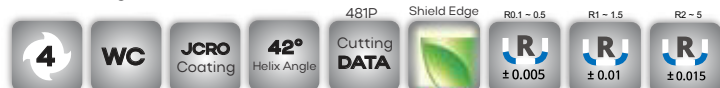
4 Flutes Rib Corner Radius End Mills for SUS

- Endmills for alloy steels, SUS, Ti/Ni base alloys, Inconel and hard-to-cut materials
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications
- Strong design for protection against chattering
- Excellent work surface finish by 4 flute and deep chip pocket
- Minimize fracturing at high feed by high TRS fine WC grade

from: **15,70**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø1 ~ 20	+0 ~ -0.01mm

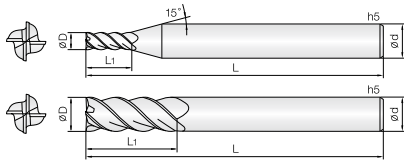
Condition	D Size	D Tolerance
ØD = Ød	Ø6 ~ 12	-0.005 ~ -0.015mm
	Ø16 ~ 20	-0.01 ~ -0.02mm



Order Number	Diameter DxR	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
4SUCR030002150	3xR0.2	4.5	15	65	6	15,70
4SUCR030005150	3xR0.5	4.5	15	65	6	15,70
4SUCR040005200	4xR0.5	6	20	70	6	16,40
4SUCR040010200	4xR1	6	20	70	6	16,40
4SUCR050005250	5xR0.5	7.5	25	70	6	16,40
4SUCR050010250	5xR1	7.5	25	70	6	16,40
4SUCR060003300	6xR0.3	9	30	70	6	16,40
4SUCR060005300	6xR0.5	9	30	70	6	16,40
4SUCR060010300	6xR1	9	30	70	6	16,40
4SUCR070005350	7xR0.5	10	35	80	8	29,00
4SUCR070010350	7xR1	10	35	80	8	29,00
4SUCR080003400	8xR0.3	12	40	80	8	25,50
4SUCR080005400	8xR0.5	12	40	80	8	25,50
4SUCR080010400	8xR1	12	40	80	8	25,50
4SUCR080015400	8xR1.5	12	40	80	8	25,50

Order Number	Diameter DxR	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Price/pc
4SUCR080020400	8xR2	12	40	80	8	25,50
4SUCR090005450	9xR0.5	13	45	90	10	41,90
4SUCR090010450	9xR1	13	45	90	10	41,90
4SUCR100005500	10xR0.5	15	50	100	10	38,20
4SUCR100010500	10xR1	15	50	100	10	38,20
4SUCR100015500	10xR1.5	15	50	100	10	38,20
4SUCR100020500	10xR2	15	50	100	10	38,20
4SUCR110005550	11xR0.5	16	55	100	12	52,70
4SUCR110010550	11xR1	16	55	100	12	52,70
4SUCR120005600	12xR0.5	18	60	110	12	46,10
4SUCR120010600	12xR1	18	60	110	12	46,10
4SUCR120015600	12xR1.5	18	60	110	12	46,10
4SUCR120020600	12xR2	18	60	110	12	46,10
4SUCR160005800	16xR0.5	24	80	130	16	90,10
4SUCR160010800	16xR1	24	80	130	16	90,10

4JJHE



4 Flutes JJ 45° Helix End Mills for Hardened Steel

- Endmills for pre-hardened and hardened steels(HRc52~68)
- Good wear resistance by high quality Si-based PVD coating
- High precise edge tolerance
- Reinforced edge design for preventing edge chipping
- Produce down to 0.03mm in diameter endmills at the first time in Korea
- Outstanding performance at high speed machining by ultra fine (0.2μm) WC grade

from: **11,80**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø0.3 ~ 6	+0 ~ -0.01mm
	Ø7 ~ 20	+0 ~ -0.015mm

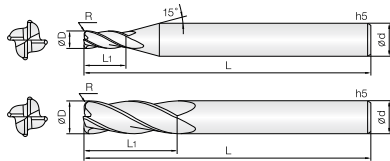
Condition	D Size	D Tolerance
ØD = Ød	Ø6	-0.005 ~ -0.015mm
	Ø8 ~ 12	-0.01 ~ -0.025mm
	Ø14 ~ 20	-0.015 ~ -0.03mm



Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4JJHE010035S06	1	3,5	40	6	13,60
4JJHE020080S06	2	8	40	6	13,60
4JJHE030080S06	3	8	45	6	12,40
4JJHE030120S06	3	12	50	6	14,20
4JJHE040110S06	4	11	45	6	11,80
4JJHE040150S06	4	15	55	6	14,40
4JJHE050130S06	5	13	50	6	13,20
4JJHE050250S06	5	25	70	6	16,70
4JJHE060150S06	6	15	55	6	13,90

Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4JJHE060250S06	6	25	70	6	16,70
4JJHE080200S08	8	20	60	8	21,50
4JJHE080300S08	8	30	80	8	26,60
4JJHE100220S10	10	22	70	10	27,30
4JJHE100300S10	10	30	90	10	32,70
4JJHE120260S12	12	26	75	12	33,20
4JJHE120350S12	12	35	90	12	38,20
4JJHE160350S16	16	35	90	16	83,10
4JJHE160500S16	16	50	110	16	92,60

4JJC



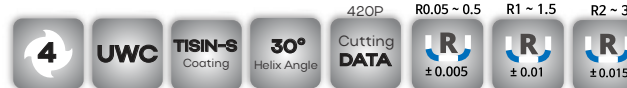
4 Flutes JJ Corner Radius End Mills for Hardened Steels

- Endmills for pre-hardened and hardened steels(HRc52~68)
- Good wear resistance by high quality Si-based PVD coating
- High precise edge tolerance
- Designed for minimizing edge chipping by corner R shape
- Various corner R and overall length for wide range application
- Outstanding performance at high speed machining by ultra fine (0.2μm) WC grade

from: **16,80**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø0.4 ~ 16	+0 ~ -0.01mm

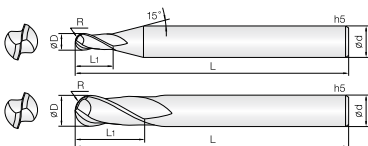
Condition	D Size	D Tolerance
ØD = Ød	Ø3 ~ 12	-0.005 ~ -0.015mm
	Ø14 ~ 16	-0.01 ~ -0.02mm



Order Number	Diameter DxR	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4JJC030003S06	3xR0.3	8	60	6	16,80
4JJC030005S06	3xR0.5	8	60	6	16,80
4JJC030010S06	3xR1	8	60	6	16,80
4JJC040010S06	4xR1	10	70	6	16,80
4JJC050003S06	5xR0.3	13	75	6	17,60
4JJC050010S06	5xR1	13	75	6	17,60
4JJC060010080	6xR1	13	80	6	18,40
4JJC080005090	8xR0.5	19	90	8	27,50
4JJC080010090	8xR1	19	90	8	27,50
4JJC100005070	10xR0.5	19	70	10	35,60
4JJC100010070	10xR1	19	70	10	35,60
4JJC100020070	10xR2	19	70	10	35,60

Order Number	Diameter DxR	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
4JJC120005075	12xR0.5	22	75	12	42,90
4JJC120010075	12xR1	22	75	12	42,90
4JJC120015075	12xR1.5	22	75	12	42,90
4JJC120020075	12xR2	22	75	12	42,90
4JJC050005S06	5xR0.5	13	75	6	17,60
4JJC060003080	6xR0.3	13	80	6	18,40
4JJC080015090	8xR1.5	19	90	8	27,50
4JJC080020090	8xR2	19	90	8	27,50
4JJC040003S06	4xR0.3	10	70	6	16,80
4JJC040005S06	4xR0.5	10	70	6	16,80
4JJC060005080	6xR0.5	13	80	6	18,40
4JJC060020080	6xR2	13	80	6	18,40

2JJB



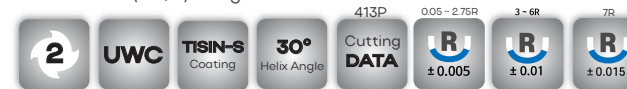
2 Flutes JJ Ball End Mills for Hardened Steels

- Endmills for pre-hardened and hardened steels(HRc52~68)
- Good wear resistance by high quality Si-based PVD coating
- High precise edge tolerance
- Excellent surface finish
- Very nice work surface finish
- Outstanding performance at high speed machining by ultra fine (0.2μm) WC grade

from: **13,40**
price/pc

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø0.1 ~ 0.15	+0 ~ -0.005mm
	Ø0.2 ~ 14	+0 ~ -0.01mm

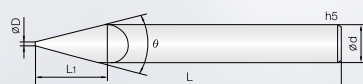
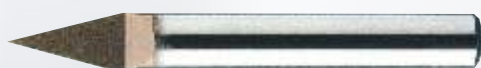
Condition	D Size	D Tolerance
ØD = Ød	Ø3 ~ 12	-0.005 ~ -0.015mm
	Ø14	-0.01 ~ -0.02mm



Order Number	Diameter RxR	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
2JJB010025S06	0.5Rx1	2.5	50	4	13,40
2JJB010025070	0.5Rx1	2.5	70	6	17,50
2JJB020050075	1Rx2	5	75	6	17,50
2JJB040080080	2Rx4	8	80	4	14,00
2JJB050100S06	2.5Rx5	10	75	6	15,40
2JJB060100060	3Rx6	10	60	6	14,20

Order Number	Diameter RxR	Length of cut L1	Overall Length L	Shank Dia d	Price/pc
2JJB060120090	3Rx6	12	90	6	16,00
2JJB080120060	4Rx8	12	60	8	21,10
2JJB080140100	4Rx8	14	100	8	28,20
2JJB100180100	5Rx10	18	100	10	33,50
2JJB120220110	6Rx12	22	110	12	44,70

1STE



Order number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank dia d	Price/pc
1STE000300S04	0	30°	5	40	4	11,00
1STE002200S04	0.2	20°	5	40	4	11,00
1STE002600S04	0.2	60°	3.29	40	4	11,50
1STE002200S06	0.2	20°	5	50	6	13,70

1 Flute Straight Flute Taper End Mills

- Endmills for various work materials, hardened steels(HRc~50), pre-hardened steels, tool steels and cast irons
- Good wear resistance by Si-based PVD coating
- Optimum for NC engraving by straight type one edge
- Maximize engraving efficiency by various edge diameter

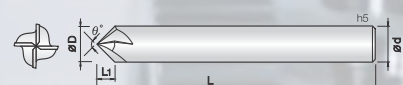
from: **11,00**
price/pc

D Size	D Tolerance
Ø 0	+0.05 ~ -0mm
Ø 0.05 ~ 0.3	0 ~ -0.02mm



Order number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank dia d	Price/pc
1STE002300S06	0.2	30°	5	50	6	13,70
1STE002900S06	0.2	90°	2.9	50	6	13,70
1STE0021200S06	0.2	120°	1.67	50	6	13,99

4STE



Order number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank dia d	Price/pc
4STE000600S03	3	60°	2.5	50	3	13,60
4STE000900S03	3	90°	1.5	50	3	12,40
4STE000600S04	4	60°	3.4	50	4	14,20
4STE000900S04	4	90°	2	50	4	13,60
4STE000600S06	6	60°	5.1	60	6	16,90
4STE000900S06	6	90°	3	60	6	15,70
4STE000900S030	6	90°	3	100	6	20,00
4STE000600S08	8	60°	6.9	65	8	21,80

4 Flutes Straight Flute Taper End Mills

- Endmills for various work materials, hardened steels(HRc~50), pre-hardened steels, tool steels and cast irons
- Good wear resistance by Si-based PVD coating
- Optimum for NC engraving, chamfering and centering with straight 4flutes
- Minimize fracturing at high feed by high TRS fine WC grade

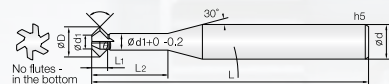
from: **12,40**
price/pc

D Size	D Tolerance
Ø 0	+0.05 ~ -0mm



Order number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank dia d	Price/pc
4STE000900S08	8	90°	4	65	8	20,50
4STE000900S040	8	90°	4	100	8	26,80
4STE000600S10	10	60°	8.6	75	10	29,20
4STE000900S10	10	90°	5	75	10	29,20
4STE000900S050	10	90°	5	100	10	30,70
4STE000600S12	12	60°	10.3	80	12	37,20
4STE000900S12	12	90°	6	80	12	37,20
4STE000900S080	16	90°	8	100	16	90,00

4TDA



Order Number	Diameter D	Angle θ	Length of cut L1	Effective Length L2	Neck Diameter ø d1	Overall Length L	Shank Dia d	Price/pc
4TDA030600075	3	60°	0.86	7.5	1.5	50	4	21,70
4TDA030900075	3	90°	1.5	7.5	1.5	50	4	21,70
4TDA040600100	4	60°	1.15	10	2	50	4	21,70
4TDA040600160	4	60°	1.15	16	2	50	4	24,80
4TDA040900100	4	90°	2	10	2	50	4	21,70
4TDA040900160	4	90°	2	16	2	50	4	24,80
4TDA050600125	5	60°	1.44	12.5	2.5	60	6	24,00
4TDA050900125	5	90°	2.4	12.5	2.5	60	6	24,00
4TDA060600150	6	60°	1.73	15	3	60	6	24,00
4TDA060600250	6	60°	1.73	25	3	60	6	27,70
4TDA060900150	6	90°	2.8	15	3	60	6	24,00
4TDA060900250	6	90°	2.8	25	3	60	6	27,70

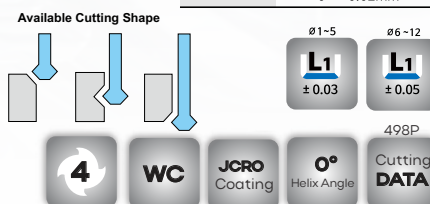
4 Flutes T-Double Angular Cutters

- Endmills for various work materials, hardened steels(HRc~50), pre-hardened steels, tool steels and cast irons
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications
- Minimize edge chipping by applying straight 4flutes design
- Various shapes and length provides optimum efficiency

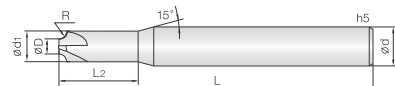
from: **21,70**
price/pc

D Size	D Tolerance
Ø 1 ~ 5	+0 ~ -0.02mm
Ø 6 ~ 12	-0.01 ~ -0.03mm

d1 Size	d1 Tolerance
Ø 0.75 ~ 6	+0 ~ -0.02mm



4CRC



Order number	Diameter d1xR	Length of cut D1	Effective Length L2	Overall Length L	Shank dia d	Price/pc
4CRC029005S04	2.9 x R0.5	4	-	50	4	26,90
4CRC049005S06	4.9 x R0.5	6	-	50	6	19,70
4CRC039010S06	3.9 x R1	6	-	50	6	19,70
4CRC049015S08	4.9 x R1.5	8	-	60	8	24,10

4 Flutes Corner Rounding Cutters

- Endmills for various work materials, hardened steels (~HRc52), pre-hardened steels, tool steels and cast irons
- Good wear resistance by Si-based PVD coating
- High precise edge tolerance
- Very nice work surface finish
- Minimize fracturing at high feed by high TRS fine WC grade

from: **19,70**
price/pc

d1 Size	d1 Tolerance
Ø 2.9 ~ 5.9	+0 ~ -0.02mm

D Size	D Tolerance
Ø 4 ~ 6	+0 ~ -0.01mm
Ø 8 ~ 16	+0 ~ -0.015mm



Order number	Diameter d1xR	Length of cut D1	Effective Length L2	Overall Length L	Shank dia d	Price/pc
4CRC039020S08	3.9 x R2	8	-	60	8	24,10
4CRC039030S10	3.9 x R3	10	-	70	10	33,00
4CRC059050S16	5.9 x R5	16	-	80	16	74,20

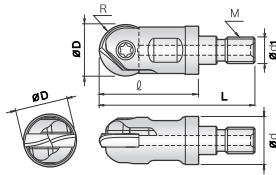
JJTOOLS

TISIN-S coating up to 62HRc

MHE Modular Head

- Can be used for both of ball and corner radius inserts
- Possible to exchange variety heads for one modular adopter and helps save your purchasing cost
- Installed modular adopter can change only head without uninstallation, it gives more convenience and it helps save your time

from: **88,90**
price/pc



Order Number	M	D	L	ℓ	d	d1	Insert	Price/pc
MHE100250M06	M06	10	40	25	9.5	6.5	2JJIN 100 / 2JJIN 110	88,00
MHE120250M06	M06	12	40	25	11	6.5	2JJIN 120 / 2JJIN 130	89,00
MHE160290M08	M08	16	45	29	14.5	8.5	2JJIN 160 / 2JJIN 170	93,00
MHE200330M10	M10	20	55	33	18	10.5	2JJIN 200 / 2JJIN 210	104,00

Dimensions (mm)

CICF Carbide Indexable Cutter for Finishing

- Can be used for both of ball and corner radius inserts
- Suitable for high speed cutting and high precise cutting due to same toughness as solid tools
- Available repairing tool holders at JJ TOOLS co., Ltd when broken problem
- Available stable machining due to minimized vibration on carbide holders

from: **113,90**
price/pc



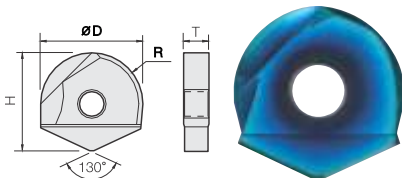
Order Number	D	L1	L	d	Insert	Price/pc
CICF100350150	10	35	150	10	2JJIN 100 / 2JJIN 110	113,00
CICF120450160	12	45	160	12	2JJIN 120 / 2JJIN 130	139,00
CICF160600230	16	60	230	16	2JJIN 160 / 2JJIN 170	249,00

Dimensions (mm)

2HHINB 2 Flutes HH Carbide Helix Ball Inserts for Hardened Steels

- Ball Inserts for hardened steels (~HRc62), pre-hardened and graphite materials
- Optimum for wear resistance by TISIN-S coating
- Maximize cutting force by applying the new helix edge design
- Designed for minimizing edge chipping by ball shape
- Minimize fracturing by ultra fine (0.3μm) WC grade

from: **19,90**
price/pc



D Size	D Tolerance
Ø 10 ~ 13	+0 ~ -0.01mm
Ø 16 ~ 30	+0 ~ -0.02mm



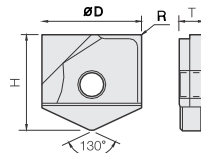
Order Number	Diameter R x D	H Height	T Thickness	Price/pc
2HHINB100	5R x 10	12.1	2.7	19,90
2HHINB120	6R x 12	14.6	3.2	21,40
2HHINB160	8R x 16	16.5	4.2	24,00
2HHINB200	10R x 20	20.4	5.2	27,80

Dimensions (mm)

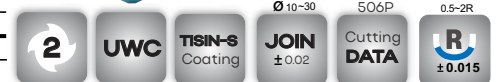
2HHINC 2 Flutes HH Carbide Helix Corner Radius Inserts for Hardened Steels

- Endmills for Mild steel, Acryl, A.B.S, Aluminum, non-ferrous and non-metallic materials
- Optimum for wear resistance by TISIN-S coating
- Maximize cutting force by applying the new helix edge design
- Designed for minimizing edge chipping by ball shape
- Minimize fracturing by ultra fine (0.3μm) WC grade

from: **20,80**
price/pc



D Size	D Tolerance
Ø 10 ~ 13	+0 ~ -0.01mm
Ø 16 ~ 30	+0 ~ -0.02mm

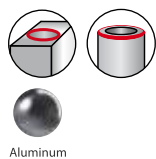


Order Number	Diameter DxR	H Height	T Thickness	Price/pc
2HHINC100005	10 x R0.5	12.1	2.7	20,80
2HHINC100010	10 x R1	12.1	2.7	20,80
2HHINC120005	12 x R0.5	14.6	3.2	22,20
2HHINC120010	12 x R1	14.6	3.2	22,20
2HHINC120020	12 x R2	14.6	3.2	22,20
2HHINC160005	16 x R0.5	16.5	4.2	25,20
2HHINC160010	16 x R1	16.5	4.2	25,20
2HHINC160020	16 x R2	16.5	4.2	25,20
2HHINC200005	20 x R0.5	20.4	5.2	29,30
2HHINC200010	20 x R1	20.4	5.2	29,30
2HHINC200020	20 x R2	20.4	5.2	29,30

Dimensions (mm)

Deburring tool holder set (FR) with countersink (F20 MI), Mango II

- Features FR ratchet holder, ideal for rotational chamfering, even when workspace is limited
- Inside diameter (ID) up to 20 mm (.79")



Aluminum

155-90072

39,00

price/set



Deburring tool holder set (FR) with countersink (F20 MI), Mango II

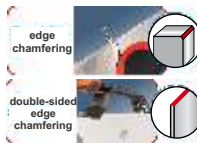
- For heavy-duty deburring of materials with single or double straight edges up to 14 mm (.56") thick
- Holder can take two R10, R20 or R30 blades for arc-shaped finishes on workpieces up to 16 mm (.63") thick



R10
"A" side for
special chips



R10
"B" side for
powdery chips



155-00206

28,00

price/set



Plastics Steel

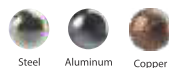
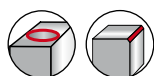
Golden Set E MI

- Compatible material: steel, aluminum, copper, plastics, brass, cast iron, wood

155-00259

39,90

price/set



Steel Aluminum Copper



Plastics Brass Cast Iron Wood



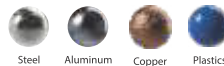
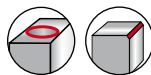
Deburring tool holder, MB2000 green

- Compatible material: steel, aluminum, copper, plastics
- Heavy-duty, hexagon-shaped handle
- Comes with replaceable E100 blade

155-29159

9,99

price/pc



Steel Aluminum Copper Plastics



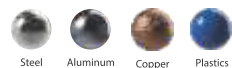
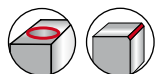
10-piece blade set, E100

- Heavy-duty HSS
- Deburrs materials with spiral chips
- Packaging: 10 pieces

151-29034

1,55

price/pc



Steel Aluminum Copper Plastics

E100
10x



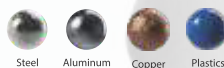
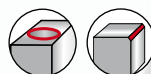
10-piece blade set, B10

- HSS
- Deburrs materials with spiral chips
- Packaging: 10 pieces

151-29212

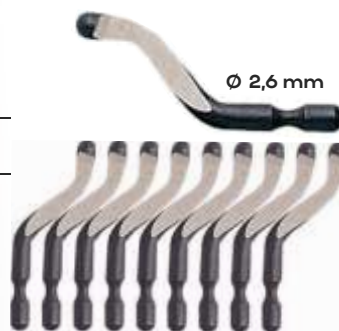
1,22

price/pc



Steel Aluminum Copper Plastics

B10
10x



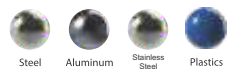
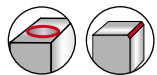
10-piece blade set, E110 Coated

- PVD TiN coated for high wear resistance
- E110 geometry
- Packaging: 10 pieces

151-29039

2,69

price/pc



Steel Aluminum Stainless Steel Plastics

E110
10x



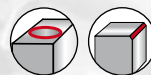
10-piece blade set, E111

- Thin-nosed, HSS
- Deburrs holes with min. diameter 1,5mm (.06")
- Packaging: 10 pieces

151-29109

1,60

price/pc



Steel Aluminum Copper Plastics

E111
10x



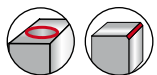
10-piece blade set, E100 Carbide

- Wear resistant carbide
- E100 geometry
- Packaging: 10 pieces

151-29035

8,50

price/pc



Hardened Steel Plastics

E100
10x



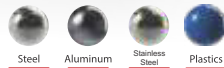
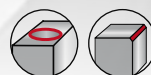
10-piece blade set, E100 Coated LH

- Coated for left-handed users
- Packaging: 10 pieces

151-00022

2,59

price/pc



Steel Aluminum Stainless Steel Plastics

E100
10x



Deburring tool holder SET-E, MANGO II + 10 B10 blades

- The new-generation MANGO II holder is an ergonomically designed tool for efficient and comfortable deburring
- The set includes 10 B10 blades, suitable for machining various materials such as steel, aluminum, copper and plastics

155-00177

12,99

price/set

10x



Deburring tool holder SET-E, MANGO II + 10 B10 blades with extension

- MANGO II with extension is an improved manual deburring tool holder designed for hard-to-reach areas
- The set includes 10 B10 blades, suitable for machining steel, aluminum, copper and plastics

155-00180

19,90

price/set

10x



Deburring tool holder SET-E, MANGO II + 10 E100 blades

- The new-generation MANGO II holder is an ergonomically designed tool for efficient and comfortable deburring
- The set includes 10 E100 blades, suitable for machining various materials such as steel, aluminum, copper and plastics

155-00178

15,99

price/set

10x



Deburring tool holder SET-E, MANGO II + 10 E100 blades with extension

- MANGO II with extension is an improved manual deburring tool holder designed for hard-to-reach areas
- The set includes 10 E100 blades, suitable for machining steel, aluminum, copper and plastics

155-00181

22,90

price/set

10x



Shaviv Glo-Burr Handy Kit, 4pc Tool Set Handy-Kit E

Set Includes:

- Glo-Burr Green + E100 blade
- Glo-Burr Red + E200 blade
- Glo-Burr Yellow + E300 blade
- Glo-Burr Blue + E111 blade

154-29144

19,90

price/set



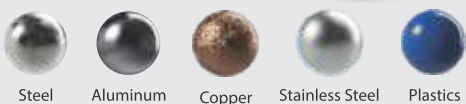
PVD TiN coated Blades for high wear resistance

Shaviv 10+2
B10P
BONUS PACK
151-00113

151-00113

21,90

price/set



Blade work direction

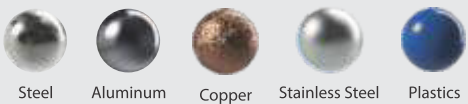
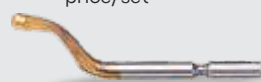


Shaviv 10+2
E100P
BONUS PACK
151-00112

151-00112

24,90

price/set



Blade work direction



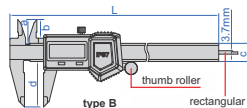
BONUS PACKS
Buy 10 Blades
Get 2 Blades
FREE!



IP67 Waterproof digital calipers

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Battery CR2032
- Meet DIN862
- Made of stainless steel

1118-
from: **74,90**
price/pc



Code	Range mm	Accuracy mm	L mm	a mm	b mm	c mm	d mm	Price/pc
1118-150B	0-150mm/0-6"	±0.03	236	21	16	16	40	74,00
1118-200B	0-200mm/0-8"	±0.03	286	24	19	16	50	125,00
1118-300B	0-300mm/0-12"	±0.03	400	25	20,5	16	60	155,00

INSIZE

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

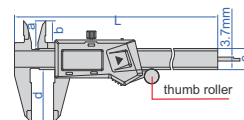
ATTENTION: NO DATA OUTPUT

IP67 WATERPROOF

Digital calipers (standard type)

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel

1108-
from: **29,20**
price/pc



Code	Range mm	Accuracy mm	L mm	a mm	b mm	c mm	d mm	Price/pc
1108-150	0-150mm/0-6"	±0.02	236	21	16	16	40	29,20
1108-200	0-200mm/0-8"	±0.03	286	24	19	16	50	43,30
1108-300	0-300mm/0-12"	±0.03	400	25	20,5	16	60	77,30

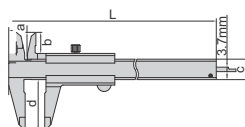
INSIZE

DATA OUTPUT

Vernier calipers

- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface

1205-
from: **18,50**
price/pc



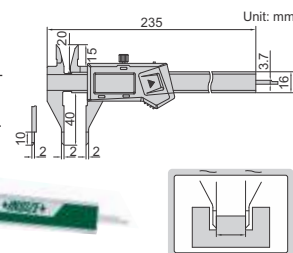
Code	Range mm	Accuracy mm	L mm	a mm	b mm	c mm	d mm	Price/pc
1205-150S	0-150mm/0-6"	±0.05	235	20,5	15,5	16	40	18,50
1205-200S	0-200mm/0-8"	±0.05	290	23,5	19,0	17	50	36,30
1205-300S	0-300mm/0-12"	±0.05	414	27,5	22,0	20	64	69,10

INSIZE

Digital small point calipers

- Non waterproof
- Small pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

1169-
from: **79,90**
price/pc



Code	Range mm	Accuracy mm	Price/pc
1169-150	0-150mm/0-6"	±0.03	79,90

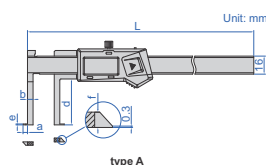
INSIZE

DATA OUTPUT

Digital inside groove calipers

- Measure diameter of grooves inside small bores
- Resolution: 0.01mm/0.0005"
- Buttons type A: on/off, set, mm/inch, preset (+, -)
- Battery CR2032
- Made of stainless steel

1520-
from: **120,00**
price/pc



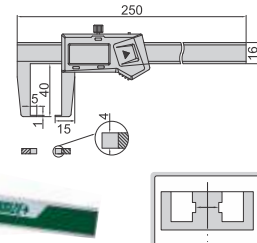
Code	Range mm	Accuracy mm	L mm	a mm	b mm	d mm	e mm	f mm	Price/pc
1520-150	11-150mm/0.43-6"	±0.04	236	3,5	5	41	1	2,5	120,00
1520-200	16-200mm/0.63-8"	±0.04	285	5	7	41	1	3	179,00
1520-300	20-300mm/0.79-12"	±0.05	398	7,5	9	62	2	4	280,00

INSIZE

Digital outside neck calipers

- Non waterproof
- Measure grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

1187-
from: **107,00**
price/pc



Code	Range mm	Accuracy mm	L mm	a mm	b mm	c mm	d mm	e mm	Price/pc
1187-150A	0-150mm/0-6"	±0.04	250	5	1	40	15	16	107,00
1187-200A	0-200mm/0-8"	±0.05	310	9	1,5	80	23	16	253,00
1187-300A	0-300mm/0-12"	±0.06	490	12	2	150	36	24	320,00

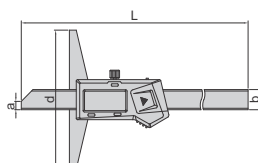
INSIZE

DATA OUTPUT

Digital depth gages (standard type)

- Non waterproof
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862 (except 0-500mm/0-20", 0-1000mm/0-40", 0-1500mm/0-60")
- Battery CR2032
- Made of stainless steel

1141-
from: **51,00**
price/pc



Code	Range mm	Accuracy mm	Resolution mm	L mm	a mm	b mm	d mm	Price/pc
1141-150A	0-150mm/0-6"	±0.03	0,01/0,0005"	230	6	14,5	100	51,00
1141-200A	0-200mm/0-8"	±0.03	0,01/0,0005"	280	6	14,5	100	62,00
1141-300A	0-300mm/0-12"	±0.03	0,01/0,0005"	380	6	14,5	150	132,00
1141-500A	0-500mm/0-20"	±0.05	0,01/0,0005"	585	7	15,0	150	270,00

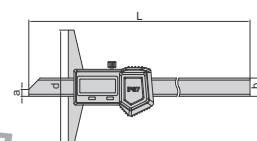
INSIZE

DATA OUTPUT

IP67 waterproof digital depth gages

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Meet DIN862
- Battery CR2032
- Made of stainless steel

1149-
from: **149,00**
price/pc



Code	Range mm	Accuracy mm	L mm	a mm	b mm	d mm	Price/pc
1149-150	0-150mm/0-6"	±0.03	240	6	16	100	149,00
1149-200	0-200mm/0-8"	±0.03	290	6	16	100	199,00
1149-300	0-300mm/0-12"	±0.03	390	6	16	150	269,00

INSIZE

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

ATTENTION: NO DATA OUTPUT

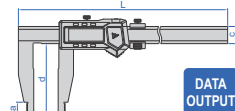
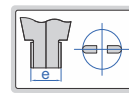
IP67 WATERPROOF

Digital calipers

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel



1106-
from: **195,00**
price/pc

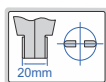


With data interface

Code	Range mm	Accuracy mm	a mm	c mm	d mm	e mm	L mm	Price/pc
1106-301	0-300mm/0-12"	±0.05	18	24	100	20	420	219,00
1106-302	0-300mm/0-12"	±0.05	18	24	150	20	420	243,00
1106-451	0-450mm/0-18"	±0.05	18	24	100	20	625	253,00
1106-501	0-500mm/0-20"	±0.05	18	24	100	20	675	195,00
1106-502	0-500mm/0-20"	±0.06	18	24	150	20	675	325,00
1106-503	0-500mm/0-20"	±0.06	24	31	200	20	675	430,00
1106-505	0-500mm/0-20"	±0.08	24	42	300	20	675	615,00
1106-601	0-600mm/0-24"	±0.05	18	24	100	20	770	255,00
1106-602	0-600mm/0-24"	±0.06	18	24	150	20	770	440,00
1106-603	0-600mm/0-24"	±0.06	24	31	200	20	770	540,00

Digital calipers

- Non waterproof
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Made of stainless steel



1136-
from: **249,00**
price/pc

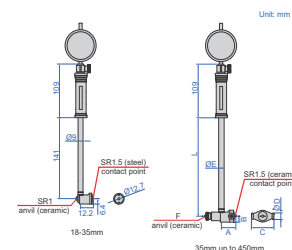


DATA
OUTPUT

With data interface

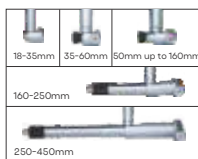
Code	Range mm	Accuracy mm	a mm	b mm	c mm	d mm	L mm	Price/pc
1136-301	0-300mm/0-12"	±0.05	18	45	24	100	420	254,00
1136-451	0-450mm/0-18"	±0.05	18	45	24	100	625	320,00
1136-501	0-500mm/0-20"	±0.05	18	45	24	100	675	249,00
1136-502	0-500mm/0-20"	±0.06	18	45	24	150	675	365,00
1136-503	0-500mm/0-20"	±0.06	24	60	31	200	675	469,00
1136-601	0-600mm/0-24"	±0.05	18	45	24	100	770	328,00
1136-1002	0-1000mm/0-40"	±0.08	24	60	31	150	1220	699,00
1136-1502	0-1500mm/0-60"	±0.11	24	60	42	150	1780	1.499,00
1136-2002	0-2000mm/0-80"	±0.14	24	60	42	150	2290	2.190,00

Bore gages



ATTENTION: NOT SUITABLE
FOR 0.001MM DIAL INDICATORS

2322-
from: **89,90**
price/pc



With dial indicator

Code	Range mm	Indicator	Accuracy μ m	Repeatability mm	Price/pc
2322-35A	18-35	dial indicator, range 10mm, graduation 0,01mm (code 2308-10FA)	±0,015	0,003	89,90
2322-60A	35-60		±0,018	0,003	92,00
2322-100A	50-100		±0,018	0,003	95,00
2322-160A	50-160		±0,018	0,003	94,00
2322-161A	100-160		±0,018	0,003	108,00
2322-250A	160-250		±0,018	0,003	138,00
2322-450A	250-450		±0,018	0,003	169,00

Bore gage sets

219,00
price/set



ATTENTION: NOT SUITABLE
FOR 0.001MM DIAL INDICATORS

With dial indicator

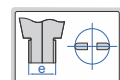
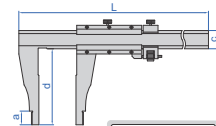
Code	Range mm	Bore gages included	Accuracy mm	Repeatability mm	Price/set
2824-S3	18-160	- Ø18-35mm - Ø35-60mm (dial indicator is not included) - Ø50-160mm (dial indicator is not included)	18-35 ±0,015 35-60 ±0,018 50-160 ±0,018	0,003	219,00

Vernier calipers (separate type)

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface



1214-
from: **119,00**
price/pc

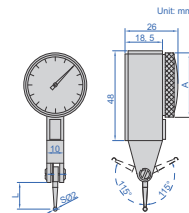


Graduation 0.02mm/0.001"

Code	Range mm	Accuracy mm	a mm	c mm	d mm	e mm	L mm	Price/pc
1214-300	0-300mm/0-12"	±0.05	10	20	75	10	410	119,00
1214-450	0-450mm/0-18"	±0.05	18	24	100	20	620	153,00
1214-500	0-500mm/0-20"	±0.05	18	24	100	20	670	159,00
1214-600	0-600mm/0-24"	±0.05	18	24	100	20	770	165,00
1214-1000	0-1000mm/0-40"	±0.08	24	32	140	20	1216	476,00
1214-1500	0-1500mm/0-60"	±0.12	24	42	200	20	1830	1.299,00
1214-2000	0-2000mm/0-80"	±0.14	24	42	200	20	2320	1.660,00

Dial test indicators

- Meet DIN2270 (except 2380-02, 2381-02, 2381-021)
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm



2380-
from: **41,90**
price/pc

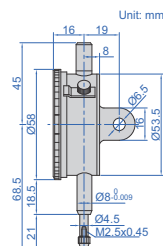


JEWELLED
BEARING

Code	Range mm	Graduation mm	Accuracy μ m	Hysteresis μ m	Dial reading mm	A mm	L mm	Price/pc
2380-08	0,8	0,01	13	3	0-40-0	Ø30	13,5	41,90
2381-08	0,8	0,01	13	3	0-40-0	Ø37	13,5	46,60

Dial indicators (standard type)

- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp



2308-
from: **19,70**
price/pc

JEWELLED
BEARING

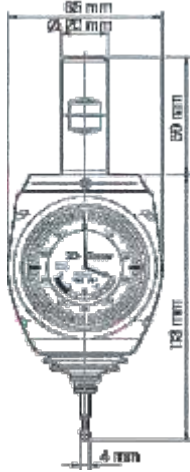
Code	Range mm	Graduation mm	Accuracy μ m	Hysteresis μ m	Dial reading mm	Remark	Price/pc
2308-10A	10	0,01	17	3	0-100	lug back	19,90
2308-10FA	10	0,01	17	3	0-100	flat back	19,70

Analog 3D probe

- Designed for determining the workpiece reference point in all three axes (X, Y, Z) on all milling machines and machining centers.
- Easy and clear readability.
- Robust housing ensures long service life in industrial environments.
- Repeatability accuracy is better than 0.01 mm.
- Automatic probe radius compensation.
- Probe equipped with a ceramic insert.
- Accuracy adjustment via four adjustment screws.

Technical specifications:

- Cylindrical shank: $\varnothing$ 20 mm, length 50 mm
- Length without shank: 113 mm
- Width: 65 mm
- Probe diameter: $\varnothing$ 4 mm
- Protection rating: IP67



251500 U3D

279,00

price/pc



INSIZE



TOUCH SCREEN

CAN BE OPERATED BY
COMPUTERS OR MOBILE PHONES

DATA
OUTPUT

BLUETOOTH

Roughness tester (separable type)

- Roughness tester can be operated by mobile phones
- (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Support bluetooth printer
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Touch screen
- Automatic power off



software flash disk
(included)

operate roughness tester by mobile phones



connect to mobile phones via bluetooth
(only Android system),
display roughness values, profile and curve

operate roughness tester by computers



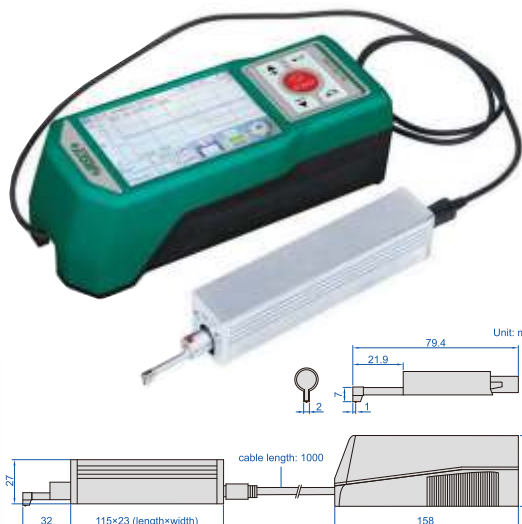
connect to computers via USB cable (software is included),
display roughness values, profile and curve



ISR-C300

899,00

price/pc



roughness tester screen display



measurement result



roughness profile



Rmr analysis

Portable surface roughness tester, SJ-220

- A portable surface roughness tester designed like a hand tool for easy on-site use
- Skid system gives you user friendly and intuitive menu navigation via touchscreen
- It works independently of mains power, allowing you to make on-site measurements
- The 2.8" high resolution LCD touchscreen gives you excellent readability
- Support of 25 languages
- Optional Bluetooth connectivity to PC and Smartphone

178-741-11

1.799,

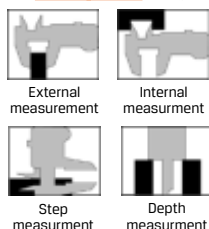
price/pc



Digital caliper

- Measuring range: 0-150 mm
- Depth gauge: flat
- Accuracy: +/- 0,01 mm

Mitutoyo



from: **84,90**
price/pc

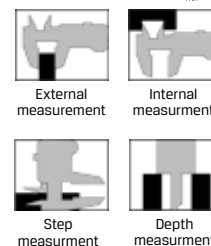
Cat. num.	Gauge designation	Range mm	Accuracy mm	Price/pc
301705 150	500-181-30	0-150	±0.01	84,90
301705 200	500-182-30	0-200	±0.01	168,00



Digital caliper, IP67

- High accuracy and linearity
- Absolute zero setting
- Includes Quadi function
- Protection: IP67
- ABSolute function

Mitutoyo



500-706-20
(301800 150)
127,90
price/pc



Caliper

- Measuring range: 0-150 mm
- Accuracy: ±0.05 mm
- Locking screw on top

Mitutoyo

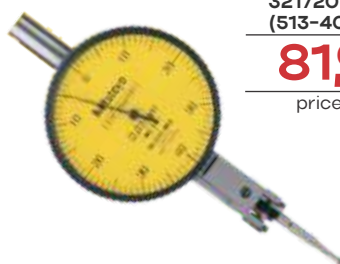


300611 150
(530-101)
29,90
price/pc

Analog dial indicator

- Reading: 0.01 mm
- Measuring range: 10 mm

Mitutoyo



321720 0,8x40
(513-404-10E)
81,00
price/pc

Analog dial indicator

- Reading: 0.01 mm
- Measuring range: 10 mm

Mitutoyo



2046AB
37,90
price/pc

PHV vise

- Mechanical / hydraulic spindle
- Large clamping width
- Quick and easy range adjustment
- Made of hardened steel
- Parallel jaws



PHV-
from: **499,00**
price/pc

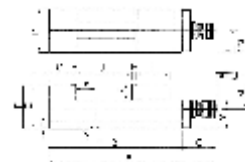


Cat. num.	jaw width mm	clamping force kN	clamping range mm	length mm	weight kg	Price/pc
PHV-130	130	36	0-220	570/795	36	499,00
PHV-160	160	41	0-300	640/940	56	550,00
PHV-200	200	62	0-300	725/1035	90	1.199,00

Compact machine vise CV



CV-
from: **630,00**
price/pc



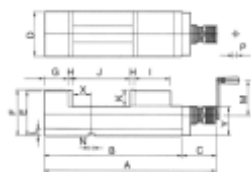
Cat. num.	Price/pc	jaw width mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm	J mm	J1 mm	J2 mm
CV-130V	630,00	130	495	405	90	131	147	150	70	115	0-180	180-240	180-290
CV-160V	780,00	160	585	495	90	161	160	163	85	130	0-240	240-320	240-360

Cat. num.	J3 mm	K mm	L mm	M mm	N mm	P mm	X mm	Y mm	weight kg
CV-130V	180-380	55	22	260	18	19	65	95	39
CV-160V	240-470	55	22	260	18	19	65	105	59

Mechanical-hydraulic CHV vise



CHV-
from: **750,00**
price/pc



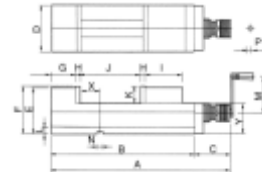
Cat. num.	Price/pc	jaw width mm	A mm	B mm	C mm	D mm	F mm	H mm	J mm	J3 mm
CHV-100V	750,00	100	475	340	135	101	133	15	0-125	200-320
CHV-130V	850,00	130	540	405	135	131	150	15	0-180	215-380
CHV-160V	950,00	160	630	495	135	161	163	15	0-240	245-470

Cat. num.	K mm	N mm	X mm	Y mm	max clamping force	weight kg
CHV-100V	48	16	45	85	36kN	27
CHV-130V	55	18	65	95	46kN	40
CHV-160V	58	18	65	105	56kN	60

Mechanical-hydraulic VCV vise



VCV-
from: **2.290,-**
price/pc



Cat. num.	Price/pc	jaw width mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm
VCV-160V-XL	2.290,00	160	788	690	98	161	149	160	86	86

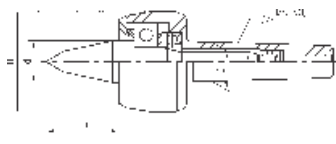
Cat. num.	J mm	J1 mm	K mm	M mm	N mm	P mm	X mm	Y mm	weight kg
VCV-160V-XL	500	500	55	-	18	19	258	105	76

Precision live center

- Small head diameter and extended tip
- 60°/30° tip angle



BM11/-
from: **43,00**
price/pc



Cat. num.	Price/pc	L mm	D mm	L1 mm	d mm	D1 mm
BM11/102	43,00	139	45	34	20	17,780
BM11/108	65,00	217	70	53	32	31,267
BM11/110	85,00	273	90	65	40	44,399

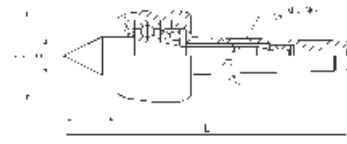
Cat. num.	max. Load	Accuracy (mm)	max. speed	MS No.
BM11/102	140	0,005	7000	MS2
BM11/108	500	0,005	3800	MS4
BM11/110	1200	0,005	3000	MS5

Precision live center

- 60° tip angle



B604H/-
from: **47,00**
price/pc



Cat. num.	Price/pc	L mm	D mm	L1 mm	d mm	D1 mm
B604H/102	47,00	129	45	24	20	17,780
B604H/104	56,00	151,5	50	27,5	22	23,825
B604H/108	68,00	205	70	41	32	31,267
B604H/110	89,90	258,5	90	50,5	40	44,399

Cat. num.	max. Load	Accuracy (mm)	max. speed	MS No.
B604H/102	200	0,005	7000	MS2
B604H/104	400	0,005	6300	MS3
B604H/108	800	0,005	3800	MS4
B604H/110	2000	0,005	3000	MS5



Simple - Quality - Affordable

Precision modular vise

- Made of high-quality steel, HRC 58-62
- Parallelism 0.005 mm / 100 mm, squareness 0.005 mm
- Easy adjustment of clamping length
- Parallel jaws



BGT-
from: **315,00**
price/pc



Cat. num.	clamping range mm	jaw height mm	max. opening mm	length mm	clamping force kg	Price/pc
BGT125-I	125	40	150	345	3000	315,00
BGT150A-I	150	50	200	420	5000	389,00
BGT150B-I	150	50	300	520	5000	419,00

Precision modular vise

- Made of high-quality steel, HRC 58-62
- Parallelism 0.005 mm / 100 mm, squareness 0.005 mm
- Easy adjustment of clamping length
- Parallel jaws



BGT-
from: **340,00**
price/pc

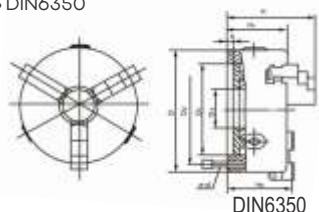


Cat. num.	clamping range mm	jaw height mm	max. opening mm	length mm	clamping force kg	Price/pc
BGT125-III	125	40	150	345	3000	340,00
BGT150B-III	150	50	300	520	5000	440,00
BGT175C-III	175	60	400	655	6000	680,00

Clamping head, 3-jaw (cast iron)

- 3-jaw self-centering chuck
- The chuck body is made of cast iron
- DIN6350

Cast iron



DK11-
from: **89,00**
price/pc

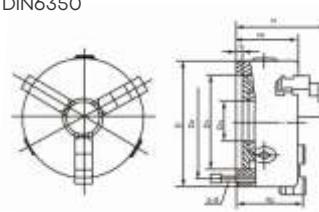


Cat. num.	diameter size ø	D1	D2	D3	H	H1	h	z-d	max. speed	Price/pc
DK11-100	100	70	83	22	74,5	55	3	3-M8	3500	89,00
DK11-125	125	95	108	30	84,5	58	4	3-M8	3000	98,00
DK11-160	160	125	140	45	94,0	65	5	6-M10	2500	149,00
DK11-200	200	160	176	65	109,0	75	5	6-M10	2000	188,00
DK11-250	250	200	224	80	120,0	80	5	6-M12	1600	250,00
DK11-315	315	260	286	100	156,5	90	6	6-M16	1200	499,00

Clamping head, 3-jaw (steel)

- 3-jaw self-centering chuck
- The chuck body is made of steel
- DIN6350

Steel



GK11-
from: **290,00**
price/pc



Cat. num.	diameter size ø	D1	D2	D3	H	H1	h	z-d	max. speed	Price/pc
GK11-160	160	125	140	45	94,0	65	5	6-M10	4000	290,00
GK11-200	200	160	176	65	109,0	75	5	6-M10	3500	399,00
GK11-250	250	200	224	80	120,0	80	5	6-M12	3000	499,00



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