Milling tools / Cutters for Die-Making

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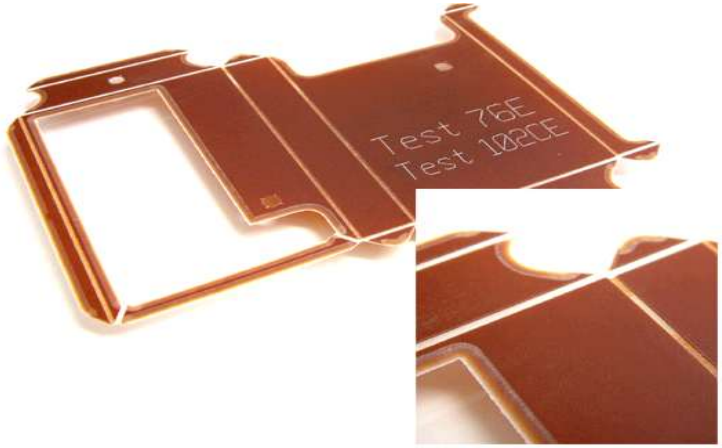
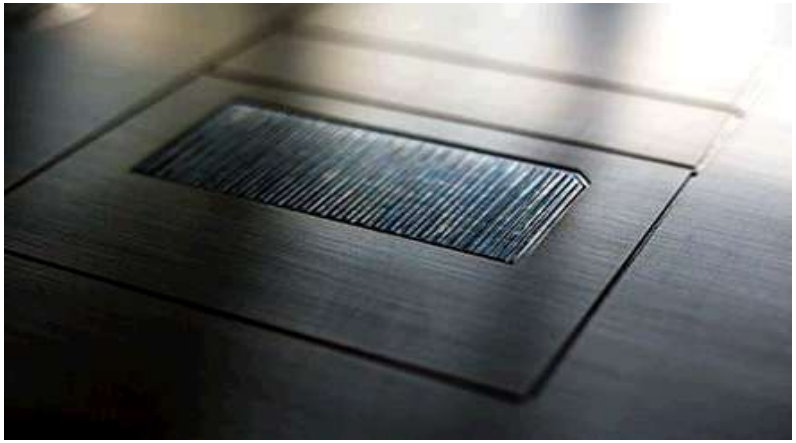
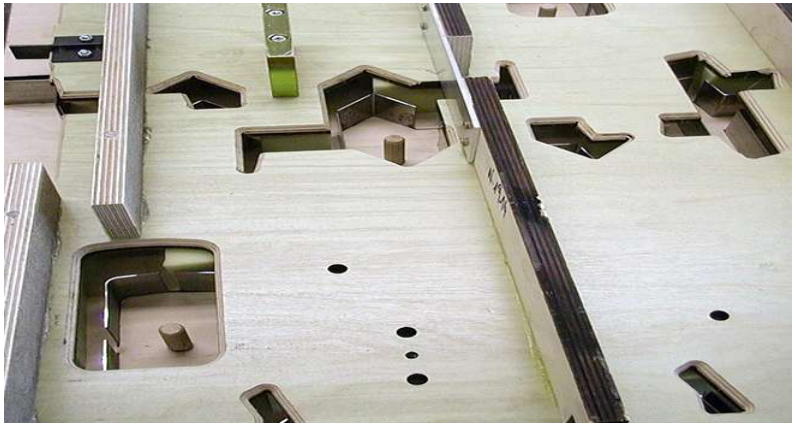
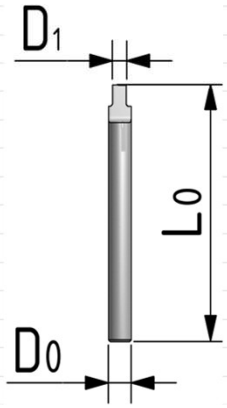




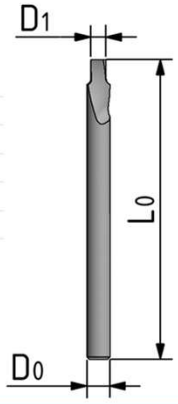


Milling of phenolic counters (rillma / Pertinax) and also Steel plates until 180 Hv. Sizes in mm



Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
Art. #	Cutter, single edge	D0	L0	L1	W1	D1 Cutting-Ø	
SAC0009	To mill the creasing channel on any phenolic counter	3	40	1,7		0,90	TC
SAC0010	This milling toold with total lenght of 40 mm is mostly	3	40	1,9		1,00	TC
SAC0011	used on most of counter-cutters	3	40	1,9		1,10	TC
SAC0012		3	40	1,9		1,20	TC
SAC0013		3	40	1,9		1,30	TC
SAC0014		3	40	1,9		1,40	TC
SAC0015		3	40	1,9		1,50	TC
SAC0016		3	40	2,1		1,60	TC
SAC0017		3	40	2,1		1,70	TC
SAC0018		3	40	2,1		1,80	TC
SAC0019		3	40	2,1		1,90	TC
SAC0020		3	40	2,1		2,00	TC
SAC0021		3	40	2,1		2,10	TC
SAC0022		3	40	3		2,20	TC
SAC0023		3	40	3		2,30	TC
SAC0024		3	40	3		2,40	TC

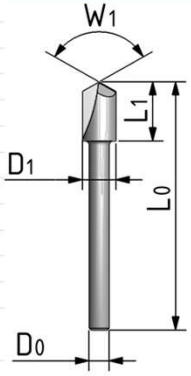
Milling of phenolic counters (rillma / Pertinax) and also Steel plates until 180 Hv. All sizes in mm

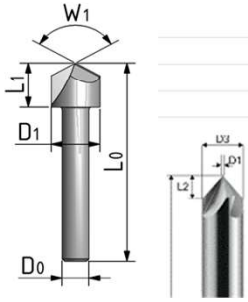


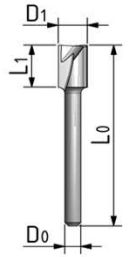
NEW

Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
SAD4010	**DLC Cutter, single edge**	3	40			1,00	Diamond
SAD4011	Coated wit DLC-diamond-Like-Carbon, for special long	3	40			1,10	Diamond
SAD4012	runs of milling channels	3	40			1,20	Diamond
SAD4013	on Pertinax or any phenolic counter	3	40			1,30	Diamond
SAD4014	Life time from >600 to 1.000 meters	3	40			1,40	Diamond
SAD4015	Often used just as 1.2 mm and worked with double-cut	3	40			1,50	Diamond
SAD4016		3	40			1,60	Diamond
SAD4017		3	40			1,70	Diamond
SAD4018		3	40			1,80	Diamond
SAD4019		3	40			1,90	Diamond
SAD4020		3	40			2,00	Diamond
SAD4021		3	40			2,10	Diamond

Cutters / milling tools for the periphery of phenolic counters

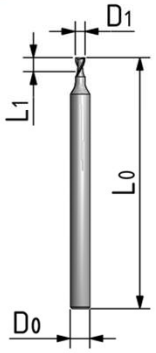




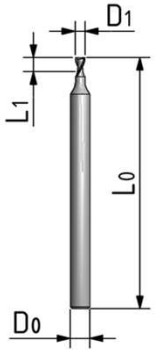


Art.#	Description	D0	L0	L1	W1	D1 Kopf-Ø	Material
	For chanfering and cutting						
SCC0001	This tools are used for chanfering the creasing matrix (rillma)	3	40	9	60°	5,00	TC
SCC0002	and also for the last process of cutting out them from the	3	40	9	90°	5,00	TC
SCB0001	channel	3	38	9	120°	5,00	TC
SCC0003		3	40	9	120°	5,00	TC
SCD0001		5	40	9	120°	9,00	TC
SGB0001		3	40	9	120°	9,00	**Diamond**
SGC0001		5	40	9	120°	9,00	**Diamond**
SGB0002		3	40	9	130°	5,00	**Diamond**
SCA0004		3	38	9	130°	5,00	**TC**
SCB0002		3	38	9	130°	5,00	TC
SCC0004		3	40	9	130°	5,00	TC
SCF0001		4	38	9	120°	5,00	TC
	Chanfering	**D0**	**L0**	**L1**	**W1**	**D1 Head-Ø**	
SCB0003	To finisch the phenolic counter (rillam) with a 160° or even	3	38	9	160°	9,00	TC
SCC0005	better 170° allows the sheet to be transportet by the grippers	3	40	9	160°	9,00	TC
SCD0002	without any obstacle.	5	40	9	160°	9,00	TC
SGB0003	Diamond coated periphery cutters	3	40	9	160°	9,00	**Diamond**
SGC0003		5	40	9	160°	9,00	**Diamond**
SGC0004		5	40	9	170°	9,00	**Diamond**
SGB0004		3	40	9	170°	9,00	**Diamond**
SCB0004		3	38	9	170°	9,00	TC
SCH0006		3	40	9	170°	9,00	TC
SCD0003		5	40	9	170°	9,00	TC
SDJ6122	DLC - For chanfering Pertinax with 120°	6	50		120°	6,00	TC + DLC
SDJ6162	DLC - For chanfering Pertinax with 160°	6	50		160°	6,00	TC + DLC
	Positioning hole	**D0**	**L0**	**L1**	**W1**	**D1 Head-Ø**	
SCC0007		3	40	9	180°	5,00	TC
SCD0004	This tools mill/cut/drill the exact positioning hole on the counter	5	40	9	180°	5,00	TC
SCC0009	In this hole, the head of the positioning pin will be fixed.	3	40	9	180°	5,47	TC
SCB0005	Positioning pins are responsible to register perfectly the	3	38	9	180°	5,50	TC
SCC0008	counter to the steel rule die (cutting form)	3	40	9	180°	5,50	TC
SCD0005		5	40	9	180°	5,50	TC

Milling of phenolic counters (rillma / Pertinax) and also Steel plates until 180 Hv. Sizes in mm

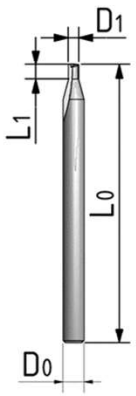


Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
SBA0008	**Cutter, single edge**	3	38	1,7		0,90	TC
SBA0009							
SBA0010	To mill / cut the creasing channel on any phenolic counter	3	38	1,9		1,00	TC
SBA0011	and also for steel up 180 Hv hardness.	3	38	1,9		1,10	TC
SBA0012	Advantage in better edge quality, easy to re-sharp	3	38	1,9		1,20	TC
SBA0013		3	38	1,9		1,30	TC
SBA0014		3	38	1,9		1,40	TC
SBA0015		3	38	1,9		1,50	TC
SBA0016		3	38	2,1		1,60	TC
SBA0017		3	38	2,1		1,70	TC
SBA0018		3	38	2,1		1,80	TC
SBA0019		3	38	2,1		1,90	TC
SBA0020		3	38	2,1		2,00	TC
SBA0021		3	38	2,1		2,10	TC
SBA0022		3	38	3		2,20	TC
SBA0023		3	38	3		2,30	TC
SBA0024		3	38	3		2,40	TC



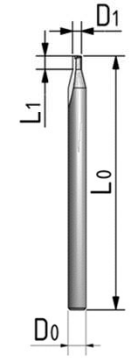
Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
SBA0008	**Cutter, single edge**	3,175	38	1,7		0,90	TC
SBA0009		3,175					
SBA0010	To mill / cut the creasing channel on any phenolic counter	3,175	38	1,9		1,00	TC
SBA0011	and also for steel up 180 Hv hardness.	3,175	38	1,9		1,10	TC
SBA0012	Advantage in better edge quality, easy to re-sharp	3,175	38	1,9		1,20	TC
SBA0013		3,175	38	1,9		1,30	TC
SBA0014		3,175	38	1,9		1,40	TC
SBA0015		3,175	38	1,9		1,50	TC
SBA0016		3,175	38	2,1		1,60	TC
SBA0017		3,175	38	2,1		1,70	TC
SBA0018		3,175	38	2,1		1,80	TC
SBA0019		3,175	38	2,1		1,90	TC
SBA0020		3,175	38	2,1		2,00	TC

Milling of creasing channels on steel plates form 35 HRC to 52 HRC



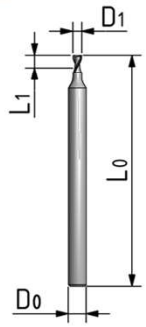
Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
SDA0010	**Cutters, double edge**	3	40	1,2		1,00	TC + TiAlN
SDA0011	This tools were specially developed for milling/	3	40	1,2		1,10	TC + TiAlN
SDA0012	engraving the creasing channel in a steel plate	3	40	1,2		1,20	TC + TiAlN
SDA0013	They represent the best	3	40	1,2		1,30	TC + TiAlN
SDA0014	cutting-life: price ratio.	3	40	1,4		1,40	TC + TiAlN
SDA0015		3	40	1,4		1,50	TC + TiAlN
SDA0016		3	40	1,4		1,60	TC + TiAlN
SDA0017	(revolutions/speed/torque) and depending on the	3	40	1,4		1,70	TC + TiAlN
SDA0018	cooling system	3	40	1,5		1,80	TC + TiAlN
SDA0019	TC (tungsten carbide) coated with **TiAlN**	3	40	1,5		1,90	TC + TiAlN
SDA0020		3	40	1,8		2,00	TC + TiAlN
SDA0021		3	40	5		2,10	TC + TiAlN
SDD0022		3	40	5		2,20	TC + TiAlN
SDD0023		3	40	5		2,30	TC + TiAlN
SDD0024		3	40	5		2,40	TC + TiAlN

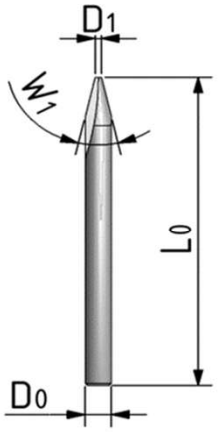
Milling of creasing channels on steel plates form 35 HRC to 52 HRC



Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
SDD0010	**Cutters, double edge**	3	40	1,2		1,00	TC + AlTin-S
SDD0011	This tools were specially developed for milling/engraving the	3	40	1,2		1,10	TC + AlTin-S
SDD0012	creasing channel in a steel plate.	3	40	1,2		1,20	TC + AlTin-S
SDD0013	You can cut in steps of 0.05 or 0.10 mm, according to the	3	40	1,2		1,30	TC + AlTin-S
SDD0014	hardness and constitution of the material, cutting parameters	3	40	1,4		1,40	TC + AlTin-S
SDD0015	(revolutions/speed/torque) and depending on cooling system	3	40	1,4		1,50	TC + AlTin-S
SDD0016	TC (tungsten carbide) cotaed with **AlTin-S**	3	40	1,4		1,60	TC + AlTin-S
SDD0017		3	40	1,4		1,70	TC + AlTin-S
SDD0018		3	40	1,5		1,80	TC + AlTin-S
SDD0019		3	40	1,5		1,90	TC + AlTin-S
SDD0020		3	40	1,8		2,00	TC + AlTin-S
SDD0021		3	40	5		2,10	TC + AlTin-S
SDD0022		3	40	5		2,20	TC + AlTin-S

Milling of creasing channels on steel plates form 35 HRC to 52 HRC



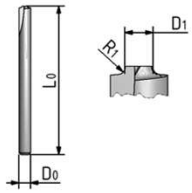


	Art.#	Description	D0	L0	L1	W1	D1 Cutting-Ø	Material
	SDH0011	**Cutters, double edge**	3	40			1,10	TC + AlTiCrN
	SDH0012	TC (tungsten carbide) coated with **AlTiCrN**, which last longer	3	40			1,20	TC + AlTiCrN
	SDH0013	Life-time > 200 m at V=2 m/min.	3	40			1,30	TC + AlTiCrN
	SDH0014		3	40			1,40	TC + AlTiCrN
	SDH0015		3	40			1,50	TC + AlTiCrN
	SDH0016		3	40			1,60	TC + AlTiCrN
	SDH0017		3	40			1,70	TC + AlTiCrN
	SDH0018		3	40			1,80	TC + AlTiCrN
	SDH0019		3	40			1,90	TC + AlTiCrN
	SDF0008	**CONICAL Cutters, single edge, conical (25°)**	3	38		25°	0,80	TC + AlTiCrN
	SDF0010	**CONICAL Cutters, single edge, conical (25°)**	3	38		25°	1,00	TC + AlTiCrN
	SDF0011	For cutting a conical (tappered) channel on steel plates	3	38		25°	1,10	TC + AlTiCrN
	SDF0012	Ideal for creasing cardboard laminated with PET / OPP on the	3	38		25°	1,20	TC + AlTiCrN
	SDF0013	inner side, also good to use with facet creasing rules and	3	38		25°	1,30	TC + AlTiCrN
	SDF0014	when the creasing rule is higher than the cutting rule	3	38		25°	1,40	TC + AlTiCrN
	SDF0022		3	38		25°	2,20	TC + AlTiCrN
	SDF0024		3	38		25°	2,40	TC + AlTiCrN
	SDG0008	**TOP SELLER**	3	40		15°	0,80	TC + AlTiCrN
NEW	**SDG0010**	**CONICAL Cutters, double edge, conical (15°)**	3	40		15°	1,00	TC + AlTiCrN
	SDG0011	For cutting a conical (tappered) channel on steel plates	3	40		15°	1,10	TC + AlTiCrN
	SDG0012		3	40		15°	1,20	TC + AlTiCrN
	SDG0013		3	40		15°	1,30	TC + AlTiCrN
	SDG0014		3	40		15°	1,40	TC + AlTiCrN
	SDG0015		3	40		15°	1,50	TC + AlTiCrN
	SDG0016		3	40		15°	1,60	TC + AlTiCrN
	SDG0017		3	40		15°	1,70	TC + AlTiCrN
	SDG0018		3	40		15°	1,80	TC + AlTiCrN

Special tools for milling and finishing the steel counter plate

New	SDL0010	**CUATRO**, special cutter with **4 bevels** to cut faster (double	3	40			1,00	top coating
	SDL0014	speed), also to cut in rectangle	3	40			1,00	top coating
	SDL0015		3	40			1,00	top coating
	SDL0020		3	40			1,00	top coating

Cutters / milling tools to reach a smooth bevel

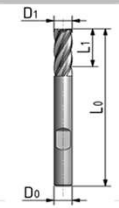


New			D0		L0	R1	D1 Cutting-Ø	Material
	SDI0009	Milling tools specially designed to sleek and finish	3		40	0,3	0,90	TC + AlTiCrN
	SDI0010	the edge of the channel. An 0.3 mm radius will be	3		40	0,3	1,00	TC + AlTiCrN
	SDI0011	made, avoiding a shap border and cleaning/shaving	3		40	0,3	1,10	TC + AlTiCrN
	SDI0012	at the same time the edge from the steel chips	3		40	0,3	1,20	TC + AlTiCrN
	SDI0013		3		40	0,3	1,30	TC + AlTiCrN
	SDI0014		3		40	0,3	1,40	TC + AlTiCrN
	SDI0015		3		40	0,3	1,50	TC + AlTiCrN
	SDI0018		3		40	0,3	1,80	TC + AlTiCrN

Milling tools to engave a chanfer on the border of the channel on Steel Counter Plates. Using i.e an 90° Chanfering, you would get a 45° chanfer at the edge of the channel

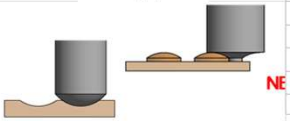
Art.#	Description	D0	L0	L1	W1	D1 Head-Ø	Material
SDJ0340	**Burring / chanfering tool**	3	40		40°	3,00	AlTiN-S
SDJ0342	**DLC - Diamond like Carbon cutter**	3	40		40°	3,00	TC + DLC
SDJ0360		3	40		60°	3,00	AlCrN
SDJ0361	For chanfering channels of > 2,1 mm	3	38		60°	3,00	AlCrN
SDJ0362	DLC - Diamond like Carbon cutter	3	40		60°	3,00	TC +DLC
SDJ0390		3	40		90°	3,00	AlCrN
SDJ0392	DLC - Diamond like Carbon cutter	3	40		90°	3,00	TC + DLC
SDJ0360		3	40		60°	3,00	AlTiN-S
SDJ0462	DLC - Diamond like Carbon cutter	4	40		60°	3,00	**TC + DLC**
SDJ0492	DLC - Diamond like Carbon cutter	4	40		90°	3,00	**TC + DLC**
SDJ0660		6	40		60°	6,00	AlTiN-S
SDJ0692	DLC - Diamond like Carbon cutter	6	50		90°	6,00	**TC + DLC**
SDJ6122	DLC - For chanfering Pertinax with 120°	6	50		120°	6,00	**TC + DLC**
SDJ6162	DLC - For chanfering Pertinax with 160°	6	50		160°	6,00	**TC + DLC**

Cutter / milling tools for cutting pockets on steel plates up to 52 HRC hardness (To create a gap in which the patrice embossing tools and/or the reverse scoring knifes can be placed. Usually with a depth of recess of 0.40 - 0.55 mm)



Art.#	Description	D0	L0	L1	W1	D1 Head-Ø	Material
SDB0002	**Cutter / milling tool with 5 edges**	**6**	**50**	**13**		**6,00**	**TC+ AlCrN**
	A tool which allow to mill on steps of 0.15 mm						
SDB0003	Cutter with 3 edeges	5	40			5,00	TC+ DLC
SDB0005	Cutter with 4 edges	4	50			4,00	AlTin
SDB0006	Cutter with 4 edges	6	58			5,00	AlTinCrN

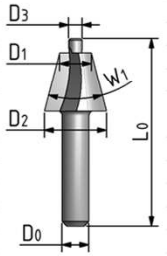
	SID0002	Engraving tools flat	3	38		25°	0,20	TC
	SID0003		3	38		25°	0,30	TC
	SID0004		3	38		25°	0,40	TC
	SID0005		3	38		25°	0,50	TC
	SIE0004	Engraving tools	3	38		15°	0,40	TC
	SIE0011		3	38		15°	1,10	TC
	SIF0030		3	38		15°	3,00	TC
	SID0012		3	40		R:1,5	0,70	AlCrN



	SID0010	Milling of BRAILLE-male tool	3	38		R:1,5	0,70	AlCrN
	SID0011	This tool allows to mill the female of a Braille embossing tool	3	38			R: 0,6	AlCrN
	SID0012	made of brass, Pertinax or softinax (POM), male tool	3	40				AlCrN
NE	SID0013	Milling of BRAILLE-female tool	3	40		R:1,75	1,50	AlCrN
		This tool allows to mill the female of a Braille embossing tool made of brass, aluminium, Pertinax or softinax (POM)						

All jobs on CNC-milling machines and routers for working on plywood, like making kerves, chanfering of stripping tools or wood- working on blanking tools

Art.#	Description	D0	L0	L1	W1	D1 Ø	Material
SIA0015	Kerf-cutter for plywood of 4-6 mm	3,15	50			1.5 Pkt. / 0.45 mm	TC
SIA0001	Kerf-cutter for plywood of 4-9 mm	3,15	50			2 Pkt. / 0.71 mm	TC
SIB0001	**Kerf-cutter for plywood of 4-9 mm** for Gerber Profile	**3,15**	**50**			**2 Pkt. / 0.72 mm**	**TC+AlCrN**
SIA0002	Kerf-cutter for plywood of 7.5 - 9 mm	3,15	50			3 Pkt. / 1,05 mm	TC
SFA0010	Cut-out of plywood (contour-cutter)	4	58			6,00	TC + TiNit
SIB0004	Kerf-cutter for plywood of 6 - 9 mm	3,15	50			4 Pkt. / 1,42 mm	TC
SIA0004	Cutter for rotary shells (1/2" or 12.7 mm)	3,15	50			4 Pkt. / 1,42 mm	TC+TiAlN
SIB0006	Kerf-cutter for plywood of 6 - 9 mm	3,15	50			6 Pt. / 2,10 mm	TC



	SFA0001	To chanfer the lower part of the lower stripping tool mit hand	6	40	12,5	30°	D2: 14,0	TC
	SFA0002	machine or even with CNC-router	8	40	12,5	30°	D2: 14,0	TC
	SFA0006	Chanfering tool for lower female stripping part, special fo CNC	6	38		30°		TC
	SFA0004	Chanfering of the upper side of the lower stripping tool	8	50	14	160°	26,00	TC