

# Copy Milling Program Tools

		Dimensions Grade							
	Tool Ordering Number	D		S	XRN	TLN	HSN	Description	
D L	BS-0375-N	0.375	0.390	0.154		•	•	Sidecutting, non-chipbreaker.	
	BS-0500-N	0.500	0.350	0.100	•	•	•	Side cutting insert used in cavity and core profiling, for	
	BS-0625-N	0.625	0.421	0.109		•	•	blending of fillets on medium	
	BS-0750-N	0.750	0.496	0.121	•	•	•	and hard materials.	
	BS-1000-N	1.000	0.679	0.179					
	BS-1250-N	1.250	0.828	0.203	•	•	•		
В	Number	D	ı		XRN	TLN	HSN	Description	
D	MB-0375	0.375	0.3	349	St. 1	. 0	4	Unique cutting edge allows	
	MB-0500	0.500	0.443		•	•	•	performance in all operations i material below 42 HRc; in sem	
	MB-0625	0.625				W		& finishing operations above.	
								Significant benefits in chip evacuation. Insert geometry	
	MB-0750					•		allows smoother cutting	
	MB-1000	1.000 0.716		•	•	•	motion-diminishing heat buil up & tool deflection, reduces		
	MB-1250	1.250 0.865		365	•	•	•	vibration caused by cutting action.	
								action.	
ВТ	Number	D		L	XRN	TLN	HSN	Description	
D	MBT-0375	0.375	0	.349	0.0	. 8	77.	Precision ground, harder grad	
	MBT-0500	0.500	0	.377	•	•	•	for semi-finish and finish milling. Excellent choice for	
	MBT-0625	0.625	0	.443	4-	•		unattended finish milling at	
	MBT-0750	0.750	0	0.518 0.716	•	•	•	small depth and high speeds and feed rates.	
	MBT-1000	1.000	0			• 5	•	and reed rates.	
	MBT-1250	1.250	0	.865	•	•	•		
B-N	Number	D		L	XRN	TLN	HSN	Description	
D	RB-0375-N	0.375	(	0.390	1	•		Precision ground,	
	RB-0500-N	0.500	) (	0.377	•	•	•	non-chipbreaker. Best choice for cavity, core and profile	
	RB-0625-N	0.625	(	0.443	•30	•	300	milling of pre-hard and fully	
	RB-0750-N	0.750	0.518		•	•	•	hard die/mold steels, cast steels and cast iron.	
	RB-1000-N	1.000		0.716	•	. 19	•	Strongest cutting edge design	
	RB-1250-N	1.250	(	0.865	•	•	•		
BT									
ВТ	Number	D		L	XRN	TLN	HSN	Description	
D	RB-0375-T	0.375	C	0.349	•	•	•	Precision ground for semi-finish	
	RB-0500-T	0.500	0.377		•	•	•	and finish milling. Excellent choice for unattended finish milling at	
	RB-0625-T	0.625	C	0.443		•	•	small depth and high speed and	
	RB-0750-T	0.750	0.518		•	•	•	feed rates.	
	DD 4000 T	1 000	,	710					
	RB-1000-T	1.000	· ·	).716	•				

### NA

Non-coated grade.

### XRN

Multi-layer hybrid coating of AICrN. This coating has very good heat resistance and also a low friction coefficient. The XRN coating is designed for use in HSM of un-heat treated softer materials such as Titanium, Inconel, Stainless Steels and other gummy materials that require the use of liquid coolant.

### HSN

Millstar's new coating is a multi-layer hybrid Nano coating. This new coating has very good heat resistance and high hardness. The HSN coating is designed for use in HSM of Heat Treated materials up to 72 HRc.

**ALTIN-EXALON (TLN)** Titanium Aluminum Nitride advanced PVD coating. A special, improved ALTiN coating approaching surface hardness of CBN on a tough substrate. Recommended for tough and hard metal machining applications.

### DMD

Diamond coating. Custom coating for cutting nonferrous, non-metallic and very abrasive materials at highly elevated speeds. Use on copper, bronze, brass, aluminum-silicon alloys, carbon graphite, solid and fiber-reinforced plastics, ceramics and composite materials.

Custom tool coatings for specific applications are available by request.





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	Tool Ordering	Dimensions			Grade			
BS-N	Number	D	L	S	XRN	TLN	HSN	Description
D	BS-10-N	10	9,50	3,65	25	•	•	Sidecutting, non-chipbreaker. Side cutting insert used in
	BS-12-N	12	8,80	2,90	•	•	•	cavity and core profiling, for
s	L BS-16-N	16	10,70	2,85	•	•		blending of fillets on medium and hard materials.
	BS-20-N	20	12,75	2,85	•	•	•	and natu materials.
F at the	BS-25-N	25	17,20	4,85	•	•	•	
	BS-30-N	30	20,00	5,10	•	•	•	
	BS-32-N	32	21,00	5,30	•	•	•	
	Number	D		L	XRN	TLN	HSN	Description
<u> </u>	MB-10	10		8,65	•	•	•	Unique cutting edge allows
	MB-12	12		9,20	•	•	•	performance in all operations in material below 42 HRc; in sem
<b>)</b> \	MB-16	16		11,25	•	•	•	& finishing operations above.
	MB-20	20		13,15	•	•	•	Significant benefits in chip evacuation. Insert geometry
	MB-25	25		18,25	•	•	•	allows smoother cutting
	MB-30	30		22,15	•	•	•	motion-diminishing heat build up & tool deflection,
	MB-32	32		21,95		4.	•	reduces vibration caused by cutting action.
	Number	D		L	XRN	TLN	HSN	Description
	MBT-10	10		8,65	•	•	•	Precision ground, harder grade
	MBT-12	12		9,20	•	•	•	for semi-finish and finish milling. Excellent choice for
) L	MBT-16	16	11,25		•		unattended finish milling at	
1	MBT-20	20		13,15	•	•	•	small depth and high speeds and feed rates.
	MBT-25	25		18,25	•	•		and reed rates.
	MBT-30	30		22,15	•	•	•	
	MBT-32	32		21,95			10.0	
	Number	D		L	XRN	TLN	HSN	Description
-53	RB-10-N	10	F 39	9,50	•		•	Precision ground,
	RB-12-N	12		9,20	•	•	•	non-chipbreaker. Best choice
L	RB-14-N	14		9,45	•	•	•	for cavity, core and profile milling of pre-hard and
	RB-16-N	16		11,25	•	•	•	fully hard die/mold steels, cast
	RB-20-N	20		13,15			1.5	steels and cast iron. Strongest cutting edge design.
	RB-22-N	22		17,45	•	•	•	Production of the last
	RB-25-N	25		18,25				
	RB-30-N	30		22,15	•	•	•	
	RB-32-N	32		21,95				
	Number	D		L	XRN	TLN	HSN	Description
	RB-10-T	10		8,65			1	Precision ground for semi-finish
	RB-12-T	12		9,20	•	•	•	and finish milling. Excellent choice for unattended finish milling at
L	RB-16-T	16			•	•	•	small depth and high speed and
	L RB-20-T	20		13,15	•	•	•	feed rates.
	RB-25-T	25		18,25	•	•	•	
	RB-30-T	30		22,15	•	•	•	
	RB-32-T	32		21,95				
				-		1 1/1/2	5000	

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