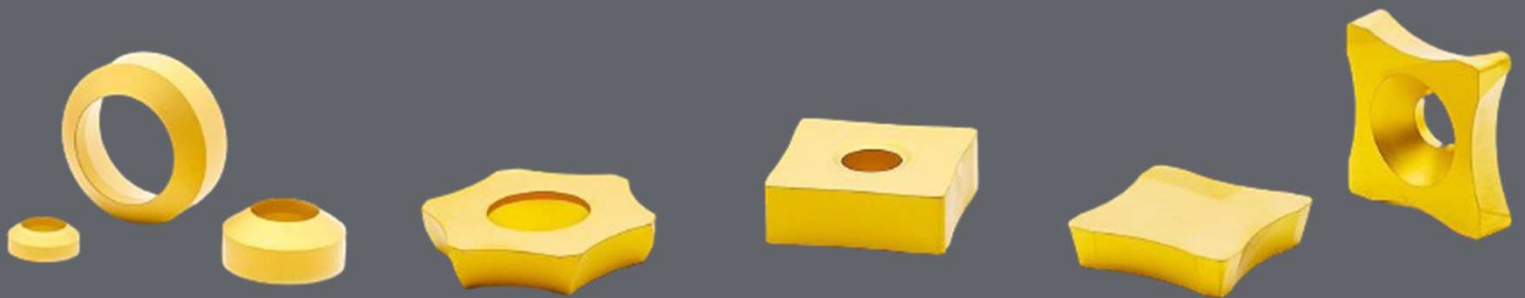


Carbide Scarfing Inserts



For Tube&Pipe Mill

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Company Profile

ToolingBox (Beijing) Industrial Technology Co.,Ltd is a Chinese professional manufacturer for cutting tools. We supply solid&brazed CBN tools, Tipped PCD inserts and tools, carbide inserts and tools for woodworking and metalworking industries.

With over a decade of dedicated expertise, our company specializes in the research, development, production, promotion, and technical service of tungsten carbide cutting tools. Our product range includes woodworking carbide reversible knives, molding knives, circular cutters, oscillating knives, carbide thin razor blades, carbide scrapers, and more. These products find extensive applications in wood processing, paper printing, film and fiber industries, electronic battery cutting, and various other sectors. Renowned for our outstanding product quality and prompt deliveries, we have garnered recognition from numerous customers, leading to a significant domestic market share and exports to countries and regions, including Europe, the United States, Russia, Mid east, India and Southeast Asia.

Our company possesses a comprehensive set of standardized testing equipment and processes to ensure product quality. We are supported by a professional team specializing in production, technology, and sales, capable of addressing various customer-related issues. With over 100 CNC grinding machines, end mills, surface grinders, and a variety of imported inspection devices, we stand as one of the industry's largest, highest-output, most diverse, and fully-equipped enterprises in China.

We adhere to the business philosophy of "integrity in operation, superior quality, and customer-first", continuously enhancing our corporate image and product quality, reducing overall costs, shortening delivery times, and consistently improving customer satisfaction.

ToolingBox, Professional makes values!





Raw material production



Raw material inspection



Flat grinding



CNC cutting edge



CNC cutting edge



Cleaning



Inspection of the first



Inspection of the second

Why Us?

ToolingBox®

ToolingBox is the leading manufacturer of carbide scarfing inserts in China for tube and pipe industries. We manufactured the inserts with premium quality raw materials, and use imported peripheral grinding to ensure the accuracy of the cutting edge, available in different radius and models. CVD coating is used to increase its bending resistance and wear resistance. The offered tools are used to take off OD and ID weld beads to give a perfectly smooth surface finish to tubes and pipes.

We mainly supply and stock a full line of the below 5 Series:

- SPUB63 series 4-sided OD External scarfing tools;
- SDUB-2206 4-sided OD External Insert Series
- SNMX1507-22 OD series
- ROMX-2404 6-sided series OD scarfing tools;
- RNGX Series for internal deburring rings;



Our Carbide Grades for Scarfing Inserts

TCS10

Application range M05-M25 / P25-P35
CVD Multilayer Coating.

Very versatile grade that can be used for a wide variety of applications. Balances wear resistance and toughness very well, achieving excellent performance with most materials. Coating complements the grade, providing additional wear and high temperature resistance.

TCS20

Application range M25-M35 / P25-P35
Multilayer mixed technology coating.

The special coating has been developed to obtain a surface layer with increased hardness and reduced roughness, to improve the performance in case of complex materials such as stainless steels and galvanized.

TCS30

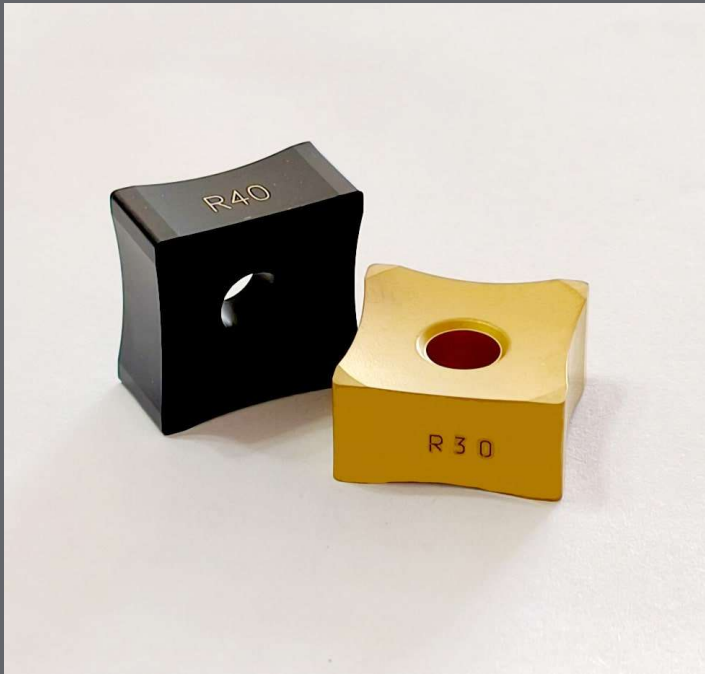
Application range M30-M45 / P30-P45
CVD Multilayer Coating.

Grade with high toughness, able to withstand the heaviest applications both in case of continuous and interrupted cutting. The grain size and composition have been specifically designed to reduce the risk of chipping and breakage to almost zero.

TCS40

Application range M30-M45/P30-P45
Multilayer mixed technology coating.

The special coating has been developed to obtain a surface layer with increased hardness and reduced roughness, to improve the performance in case of complex materials such as stainless steels and galvanized.



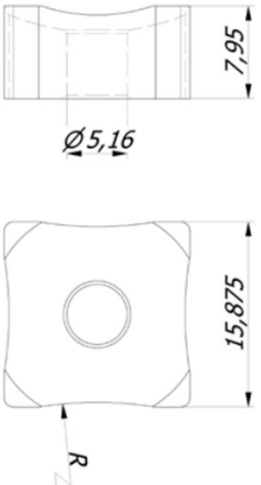
External Scarfing

After forming and welding, the newly created pipe needs a removal of the excess material left on the outer surface of the welding area during the process.

For this purpose, ToolingBox offers several product lines to cover every need:

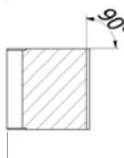
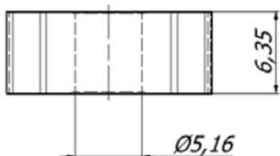
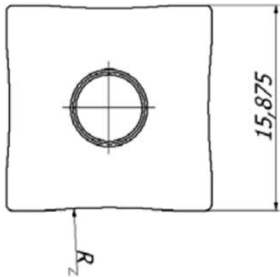
1. STANDARD INSERTS | SNMX TYPES
2. POSITIVE INSERTS
3. POSITIVE INSERTS for thick tubes

SNMX15-22- Type 1

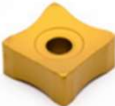
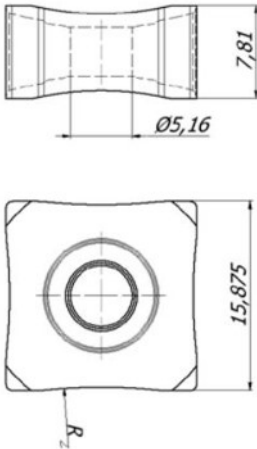
		Radius	Tube Outer diameter		Carbide Grade				Note
			Min.	Max.					
Cod. SNMX 15-22-01					TCS10	TCS20	TCS30	TCS40	
	R07	8	13	◆	◆	◆	◆		
	R09	12,5	16	◆	◆				
	R11	15	19	◆	◆				
	R13	17	23	◆	◆				
	R15	21	28	◆	◆				
	R18	26	33	◆	◆				
	R20	30	37	◆	◆				
	R22	34	41	◆	◆				
	R25	38	45	◆	◆				
	R27	43	50	◆	◆				
	R30	48	54	◆	◆				
	R35	52	62	◆	◆				
	R40	60	70	◆	◆				
	R45	68	78	◆	◆				
	R50	76	85	◆	◆				
	R60	83	97	◆	◆				
R70	95	110	◆	◆					
R75	106	120	◆	◆					
R80	115	130	◆	◆					
R90	125	140	◆	◆					
R100	135	150	◆	◆					

Legend: ◆ Available in Stock - ◆ On request

External Scarfing – SNMX15- 22 Type 02

 	Radius	Tube Outer diameter		Carbide Grade				Note
		Min.	Max.					
	Cod. SNMX 15 -22- 02			TCS10	TCS20	TCS30	TCS40	
 	R07	8	13,5	◆	◆			
	R09	13	17	◆	◆			
	R11	16	21	◆	◆			
	R13	20	25	◆	◆			
	R15	24	29	◆	◆			
	R18	27	35	◆	◆			
	R20	33	39	◆	◆			
	R22	36	42	◆	◆			
	R25	40	48	◆	◆			
	R27	45	52	◆	◆			
	R30	50	58	◆	◆			
	R35	56	68	◆	◆	◆	◆	
	R40	65	78	◆	◆			
	R45	75	88	◆	◆			
	R50	85	98	◆	◆			
	R60	96	117	◆	◆			
	R70	115	137	◆	◆			
	R75	134	147	◆	◆			
	R80	145	156	◆	◆			
	R90	155	176	◆	◆			
R100	175	195		◆				

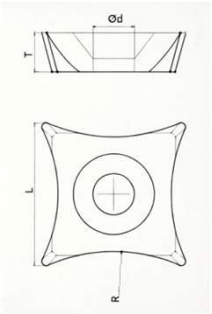
External Scarfing – SNMX15-22 Type 03

	Radius	Tube Outer diameter		Carbide Grade				Note
		Min.	Max.					
	Cod. SNMX 15-22- 03			TCS10	TCS20	TCS30	TCS40	
	R07	8	13	◆	◆			
	R09	12,5	16	◆	◆			
	R11	15	19	◆	◆			
	R13	17	23	◆	◆			
	R15	21	28	◆	◆			
	R18	26	33	◆	◆			
	R20	30	37	◆	◆			
	R22	34	41	◆	◆			
	R25	38	45	◆	◆			
	R27	43	50	◆	◆			
	R30	48	54	◆	◆	◆	◆	
	R35	52	62	◆	◆			
	R40	60	70	◆	◆			
	R45	68	78	◆	◆			
	R50	76	85	◆	◆			
	R60	83	97	◆	◆			
	R70	95	110	◆	◆			
	R75	106	120	◆	◆			
	R80	115	130	◆	◆			
	R90	125	140	◆	◆			
	R100	135	150	◆	◆			

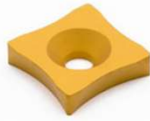
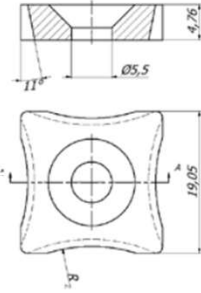
External Scarfing – Positive Inserts

Thanks to the sharp cutting edge, these inserts are suitable for machining thin tubes and difficult materials like stainless steels, aluminium and galvanized steels.

4-Sided SDUB-2206 series

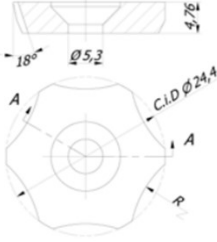
	ToolingBox Item No.	Dimensions (mm)				Tube Outer Diameter (mm)	Grade		Reference specifications
		L	T	Φd	R		TCS10	TCS20	
	SDUB2206-R35	22	6	6.35	35	50-60	◆	◆	
	SDUB2206-R40	22	6	6.35	35	57-79	◆	◆	
	SDUB2206-R50	22	6	6.35	50	79-98	◆	◆	
	SDUB2206-R60	22	6	6.35	60	92-123	◆	◆	DET12
	SDUB2206-R75	22	6	6.35	75	123-149	◆	◆	DET13
	SDUB2206-R85	22	6	6.35	85	149-168	◆	◆	DET14
	SDUB2206-R100	22	6	6.35	100	168-200	◆	◆	DET15
	SDUB2206-R130	22	6	6.35	130	200UP	◆	◆	
	SDUB2206-R180	22	6	6.35	180	300UP	◆	◆	

4-sided SPUB-63 series:

	Item No.	Radius (mm)	Tube Outer diameter		Grade	
			Min.	Max.		
		SPUB-63			TCS10	TCS20
SPUB-63B		12	Up	22	◆	◆
SPUB-63C		15	22	28	◆	◆
SPUB-63D		20	28	38	◆	◆
SPUB-63E		25	38	47	◆	◆
SPUB-63F		30	47	57	◆	◆
SPUB-63G		40	57	79	◆	◆
SPUB-63H		50	79	98	◆	◆
SPUB-63I		63	98	123	◆	◆
SPUB-63J		75	123	149	◆	◆
SPUB-63K		88	149	174	◆	◆
SPUB-63L		101	174	200	◆	◆
SPUB-63M		NONE	200	UP	◆	◆

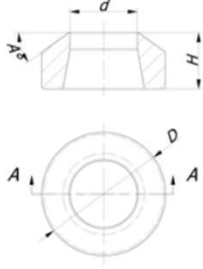
Legend: ◆ Available in Stock - ◆ On request

6-sided ROMX2404 series

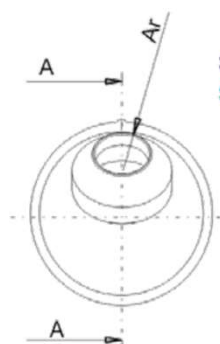
	ToolingBox Item No.	Dimensions (mm)				Tube Outer Diameter (mm)	Grade		Reference specifications
		L	T	Φd	R		TCS10	TCS20	
	SIZE 0	24.4	4.76	5.35	10	under 15	◆	◆	ROMX-2404-R10 (DET3)
	SIZE 1	24.4	4.76	5.35	13	13-20	◆	◆	ROMX-2404-R13 (DET5)
	SIZE 2	24.4	4.76	5.35	16	20-29	◆	◆	ROMX-2404-R16 (DET7)
	SIZE 3	24.4	4.76	5.35	21	29-38	◆	◆	ROMX-2404-R21 (DET8)
	SIZE 4	24.4	4.76	5.35	27	38-50	◆	◆	ROMX-2404-R27 (DET9)
	SIZE 5	24.4	4.76	5.35	38	50-72	◆	◆	ROMX-2404-R38 (DET10)
	SIZE 6	24.4	4.76	5.35	47	72-95	◆	◆	ROMX-2404-R47 (DET11/12)

Legend: ◆ Available in Stock - ◆ On request

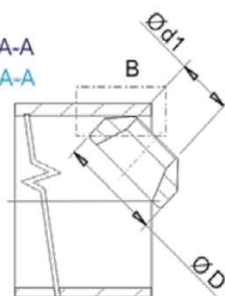
Standard product line for internal de-burring rings, used in case of pipes up to 5mm thickness. Our line includes inserts with 42° cutting angle, used for the most common applications, as well as rings with 48° cutting angle (on request), which are normally used in case of aluminized tubes. They can be mounted on all types of chuck, both mechanical and hydraulic.

	Item Code	Main size				Tube Inner Diameter		Grade	
		D	H	d	A	Min.	Max.		
	RNGX							TCS10	TCS20
	RNGX080404	8	4	4	42°	14	17	◆	◆
	RNGX080604	8	4	5	42°	16	17	◆	◆
	RNGX100605	10	6	5	42°	16	19	◆	◆
	RNGX100606	10	6	6	42°	17	20	◆	◆
	RNGX130605	13	6	5	42°	20	22	◆	◆
	RNGX130606	13	6	6	42°	22	24	◆	◆
	RNGX130608	13	6	8	42°	24	26	◆	◆
	RNGX190809	19	8	9	42°	26	28	◆	◆
	RNGX190810	19	8	10	42°	28	30	◆	◆
	RNGX190811	19	8	11	42°	30	34	◆	◆
	RNGX221012	22	10	12	42°	32	41	◆	◆
	RNGX221015	22	10	15	42°	41	50	◆	◆
	RNGX301620	30	16	20	42°	48	58	◆	◆
	RNGX301217	30	12	17	42°	54	66	◆	◆
	RNGX301220	30	12	20	42°	62	72	◆	◆
	RNGX351215	35	12	15	42°	70	85	◆	◆
	RNGX351520	35	15	20	42°	85	100	◆	◆
	RNGX401520	40	15	20	42°	90	110	◆	◆
	RNGX452030	45	20	30	42°	100	130	◆	◆
	RNGX501535	50	15	35	42°	125	160	◆	◆
	RNGX551840	55	18	40	42°	150	260	◆	◆

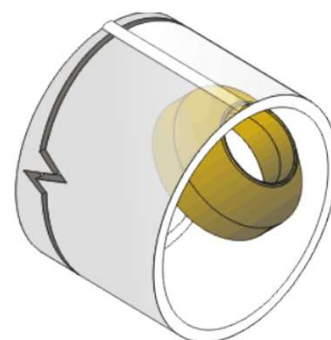
Legend: ◆ Available in Stock - ♦ On request



SEZIONE A-A
SECTION A-A



DETTAGLIO B
PARTICULAR B



Contact Us



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