

KLT Carbide Co., Ltd

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KLT Carbide Co.,Ltd.



KLT Carbide Co. Ltd., established in 1988, is an international company which specializes in making cemented carbides and hard facing materials. Our products are widely used as highly wear resistant parts, molds for metal products and mining tools, especially mechanical seal rings, bushings, valve parts and nozzles for Oil, Gas industries and other flow control projects.

We are one of the biggest Chinese manufacturers for seal rings and bushings and also provide wear resistant solutions and technical support to customers.









Main products and corresponding industries

- 1. Wear resistant parts
 - 1.1 Wear parts for Oil, Gas industries and other flow control projects
 - 1.1.1 Mechanical seal rings
 - 1.1.2 Sleeves
 - 1.1.3 Nozzles
 - 1.1.4 Valve parts
 - 1.2Blank dies
 - 1.2.1 Wire drawing dies
 - 1.2.2 Stamping dies for standard fasteners
 - 1.2.3 Forming dies for powder metallurgy
 - 1.2.4 Plates
- 2. Cemented carbide inserts for engineering, oil-field drilling and mining
 - 2.1 Carbide inserts for engineering and oil-field drilling
 - 2.2Carbide inserts for coal mining
 - 2.3 Carbide inserts for geological prospecting and exploration
 - 2.4Mining bits
- 3. Blank bars and grinding bars
- 4. Metal cutting inserts

Brazed tips, indexable inserts and heavy cutting inserts

5. Hard facing materials and surface treatments

Coating with cemented carbide powder, welding with composite rods, spray welding and thermal spraying

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■ Grades and properties

Grade	Co (wt %)	Density (g/cm ³)	Hardness (HRA)	$\begin{array}{c} \text{TRS} \\ (\geq N/\text{mm}^2) \end{array}$	Applications
KC100	5.8~6.2	14.6~15.0	91.5~92.5	2000	
KC101	5.8~6.2	14.6~15.0	91.5~92.5	2500	
KC200	7.8~8.2	14.5~14.9	91.0~92.0	2100	Waan magistant
KC201	7.8~8.2	13.5~14.9	91.0~92.0	2800	Wear-resistant
KC300	9.8~10.3	14.2~14.6	90.5~91.5	2600	
KC301	9.8~10.3	14.2~14.6	90.5~91.5	3200	
G 1	Ni	Density	Hardness	TRS	
Grade	(wt %)	(g/cm ³)	(HRA)	$(\geq N/mm^2)$	Applications
KN100	6.5~7.5	14.5~14.8	88.5~91.0	1800	
KN101	6.5~7.5	14.5~14.8	88.5~91.0	2200	Corrosion-resistant
KN300	10.0~11.0	14.2~14.6	86.5~89.5	2100	Corrosion-resistant
KN301	10.0~11.0	14.2~14.6	86.5~89.5	2400	
	Co+Ni	Density	Hardness	TRS	
Grade	(wt %)	(g/cm ³)	(HRA)	$(\geq N/mm^2)$	Applications
KCN30	9.5~10.5	14.0~14.5	88.0~90.0	2400	Corrosion-resistant
KCN31	9.5~10.5	14.0~14.5	88.0~90.0	3200	Wear-resistant

■ Sleeves

Used for water pumps, oil pumps, mud pumps and etc.

Classification

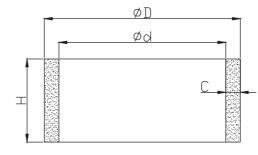
Straight sleeves
T –Sleeves
Mushroom sleeves



Straight sleeves

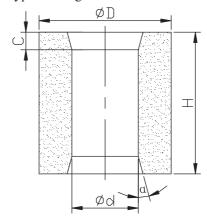


Type A straight sleeves



Dimensions of Type A straight sleeves (mm)						
Spec	Spec D d			C		
A1	14.5~20	12-16	6.0~10.0	1.3		
A2	12.5	3.5~7.0	12.7	4.5		
A3	21~60	15~50	51	3		
A4	75~130	60~115	55~100	6		
A5	140~300	120~260	60~150	10		

Type B straight sleeves

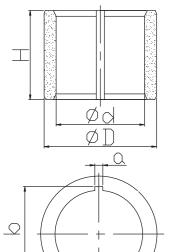


Dimensions of Type B straight sleeves (mm)					
D	d	С	Н		
25.0~30.0	9.0~14.0	2.0~3.5	21.0~25.0		
31.0~50.0	14.0~35.0	2.0~3.5	21.0~25.0		
60.0~100.0	47.0~85.0	2.0~3.5	30.0~70.0		



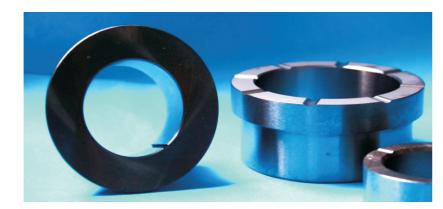


Type C straight sleeves

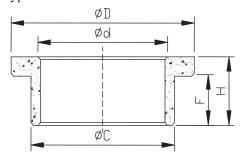


Dimen	Dimensions of Type C straight sleeves (mm)					
D	d	Н	a			
20.0~40.0	17.0~30.0	10.0~36.0	1.6			
41.0~80.0	31.0~70.0	10.0~36.0	3.2			

◆T –Sleeves

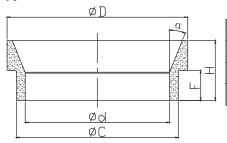


Type A T sleeves



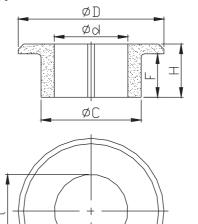
Dimensions of Type A T sleeves (mm)						
D d C F H						
13.0~59.0	3.0~51.0	8.0~56.0	22.5	25.5		
35.0~51.0 22.0~37.0 28.0~41.0 11.0~16.0 15.0~25.0						

Type B T sleeves



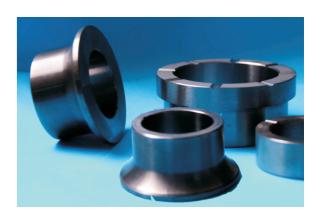
Dimensions of Type B T sleeves (mm)						
D	D d C F H					
38.0~50.0	35.0~45.0	30.0~35.0	20.0~30.0	27.0~40.0		
51.0~100.0	46.0~95.0	20.0~30.0	30.0~50.0			

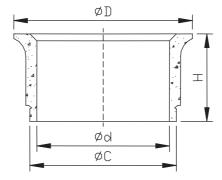
Type C T sleeves



Dimensions of Type C T sleeves (mm)					
D d C F H					
13.0~59.0	3.0~51.0	8.0~56.0	22.5	25.5	
35.0~51.0 22.0~37.0 28.0~41.0 11.0~16.0 15.0~25.0					
注: a=1.6、3.2					

Mushroom Sleeves





Dimensions of Mushroom sleeves (mm)					
D	d	С	Н		
13.0~59.0	3.0~51.0	8.0~56.0	25.5		
35.0~51.0 22.0~37.0 28.0~41.0 15.0~25.0					

Technical parameter:

Cf	Roundness	Parallelism	Perpendicularity	Circularity	Runout	Total runout
Surface	0	//		0	1	<u> </u>
roughness	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3.2~0.1	≤0.01	≤0.01	≤0.01	≤0.025	≤0.025 mm	≤0.025 mm

Other processing: chamfer, end face R or rectangular radial grooves, pin holes for ex-circle rotation-prevention, oil holes, ex-circle axial rotation-prevention R or rectangular grooves.