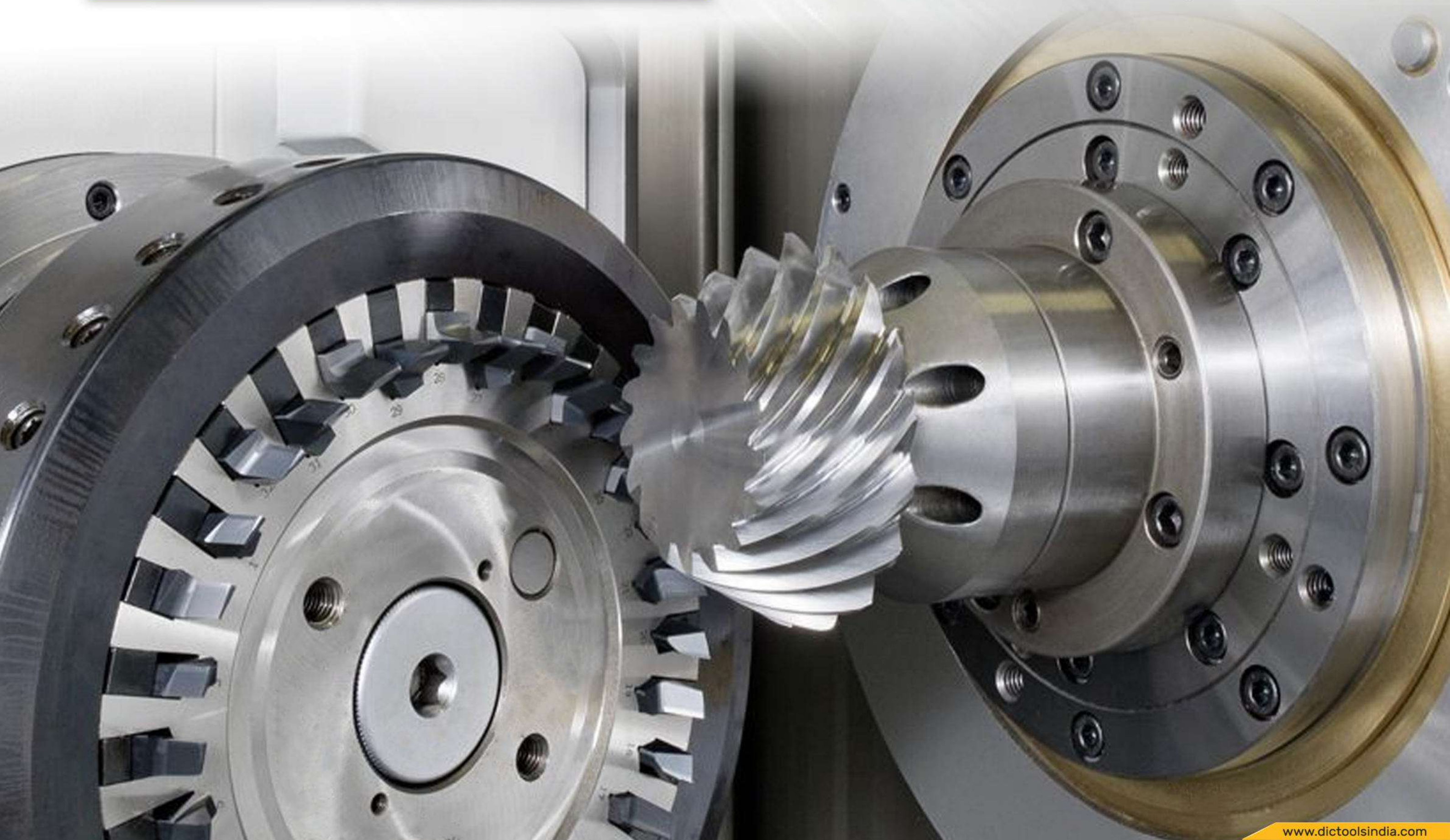


# BEVEL GEAR CUTTING TOOLS

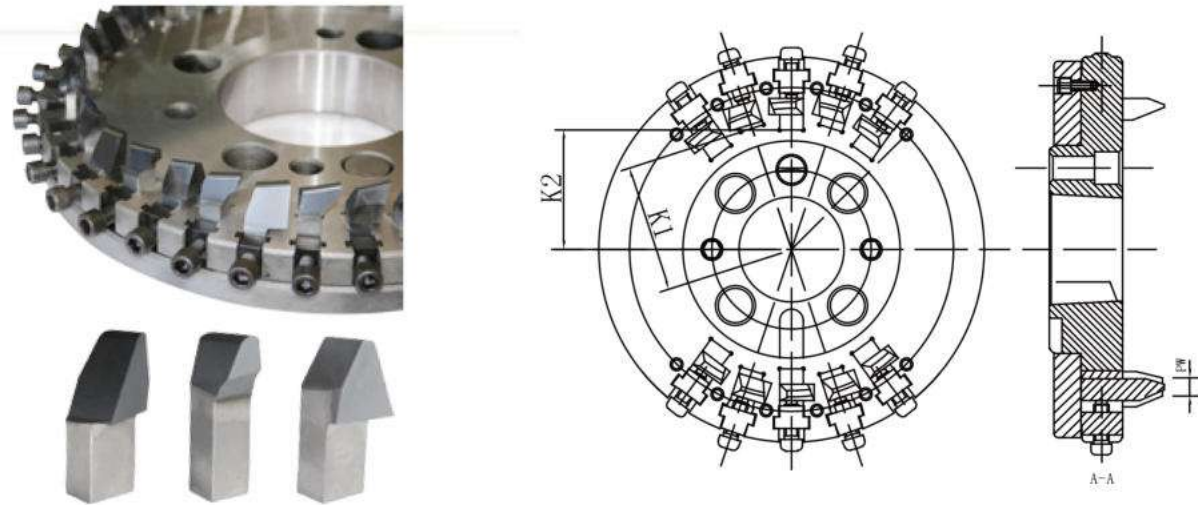
**DiCTOOLS**  
A Brand by Dedicated Impex Co.



# SPIRAL BEVEL GEAR CUTTER

# SPIRAL BEVEL GEAR CUTTER

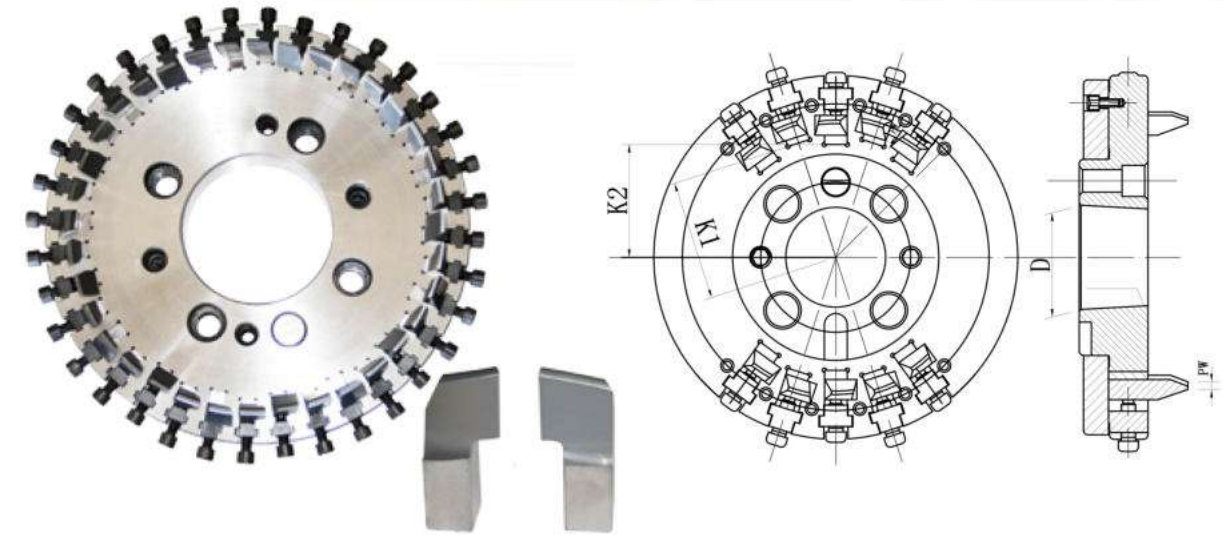
TRIPLEX ROUGHING CUTTER OF NEW STRUCTURE



AVG DIAMETER	No. OF TEETH			POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER
	OUTSIDE BLADE	BOTTOM BLADE	INSIDE BLADE			K1	K2		
6"	5	10	5	1.8~3.8	12.7	68.825	65.025	58.196	1:24
7.5"	6	12	6	2.0~5.0	12.7	88.775	81.925		
9"	7	14	7	2.0~5.0	14.2	107.825	100.975		
10.5"	8	16	8	2.0~6.5	19.4	123.2	119.375	126.966	
12"	9	18	9	2.0~6.5	19.4	142.25	138.425		
14"	9	18	9	2.5~9.5	25.4	167.64	154.94	126.966 126.835 L=22	
16"	10	20	10	2.5~9.5	25.4	193.05	180.35		
18"	10	20	10	2.5~9.5	25.4	217	210	126.835 L=22	

■ For roughing cutting of spiral bevel gear and hyperbolic gear

ALTERNATE ROUGHING CUTTER OF NEW STRUCTURE



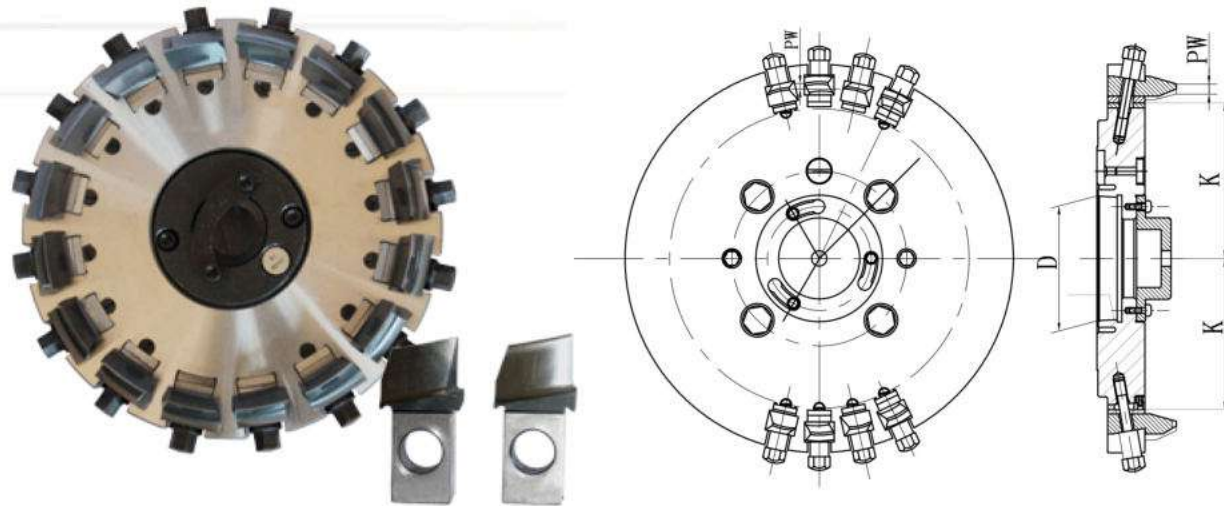
AVG DIAMETER	No. OF TEETH		PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER	
	aW OUTSIDE BLADE	aN INSIDE BLADE			K1	K2			
4.5"	6	6	0.5~2.5	9.5	47.325	----	58.221	1:24	
5"	8	8	0.5~3.8	9.5	53.675	----			
6"	10	10	0.5~3.8	12.7	68.825	65.025			
7.5"	12	12	0.75~5.0	12.7	88.775	81.925			
9"	14	14	0.75~5.0	14.2	107.825	100.975			
10.5"	16	16	0.75~6.35	19.4	123.2	119.375			126.966
12"	18	18	0.75~6.35	19.4	142.25	138.425			
14"	18	18	1.27~7.6	25.4	167.64	154.94			126.966 126.835 L=22
16"	20	20	1.27~7.6	25.4	193.05	180.35			
18"	20	20	1.27~7.6	25.4	217	210			126.835 L=22

■ For roughing cutting of spiral bevel gear and hyperbolic gear or pinion

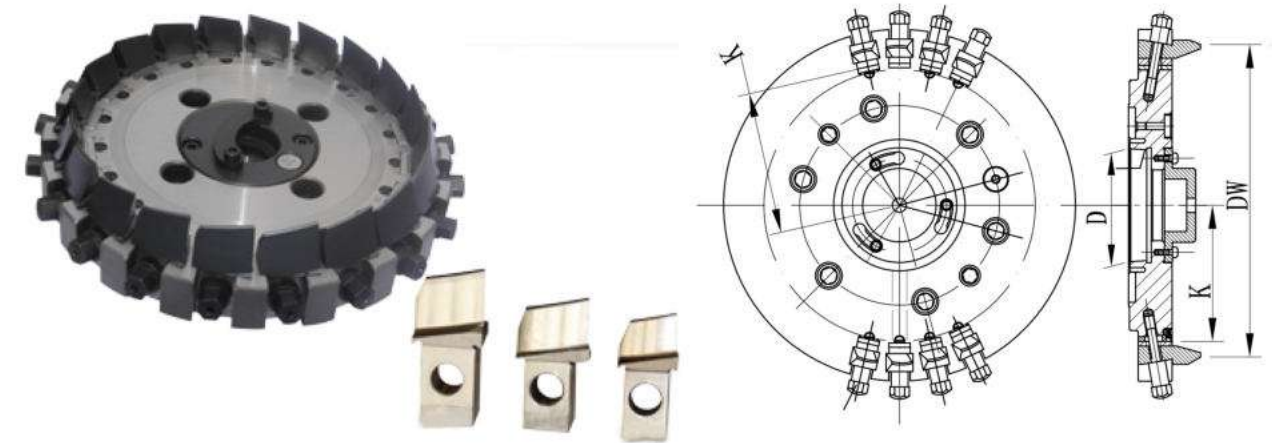
# SPIRAL BEVEL GEAR CUTTER

# SPIRAL BEVEL GEAR CUTTER

ALTERNATE FINISHING CUTTER OF NEW STRUCTURE



OUTSIDE FINISHING CUTTER OF NEW STRUCTURE



AVG DIAMETER	OUTSIDE BLADE		POINT WIDTH	CUTTING DEPTH	BODY DISTANCE	D		TAPER
						TAPER-BORE DIAMETER	DIAMETER	
4.5"	4	4	0.5~2.5	9.5	47.275	58.221		1:24
5"	6	6	0.5~3.8	9.5	53.625			
6"	6	6	0.5~3.8	12.7	65.125			
	8	8						
7.5"	8	8	0.75~5.0	12.7	84.075			
9"	10	10		14.2	103.125			
10.5"	10	10	1.7~7.6	19.4	120	126.966		
12"	14	14	0.75~6.5	19.4	139			
14"	14	14	1.27~7.5	25.4	162.025			
16"	18	18	1.27~7.5	19.4	184.875	126.966 126.835 L=22		
			1.27~10	25.4	184.875			
18"	18	18	1.27~12.7	25.4	215/208	126.835 L=22		
	12	12		38	215/208			

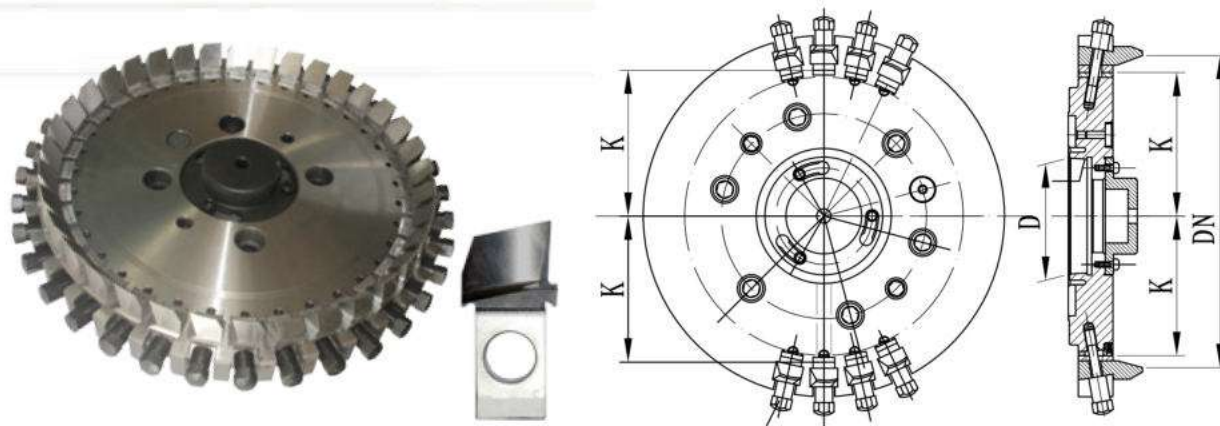
■ For finishing cutting of spiral bevel gear and hyperbolic gear or pinion

AVG DIAMETER	No OF TEETH	DW	CUTTING DEPTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER
5"	12	113.5~134.25	9.5	53.625	58.221	
	6"			12		
6"		16	135~167.5	12.7		
	65.125					
7.5"	16	156~187.25	12.7	67.75		
				72.25		
9"	20	175.75~260	14.2	69.5		
				74.5		
12"	24	262~333.5	19.4	80.875		
				87.25		
14"	28	318.6~382	25.4	93.625		
				96.75		
16"	32	346.5~451.5	25.4	103.125		
				108.125		
18"	36	447.75~517.75	25.4	122.375		
				130		
18"	24	438.5~515.75	38	138.875		
				146.5		
18"	36	447.75~517.75	25.4	147.9		
				152.09		
18"	36	447.75~517.75	25.4	169.15		
				174.15		
18"	36	447.75~517.75	25.4	163.375		
				174.25		
18"	36	447.75~517.75	25.4	184.875		
				195.25		
18"	36	447.75~517.75	25.4	205.25		
				215.375		
18"	36	447.75~517.75	25.4	225.5		
				235.625		
18"	36	447.75~517.75	25.4	204.5		
				215.875		
18"	36	447.75~517.75	25.4	227.375		
				227.375		

■ For finishing cutting of spiral bevel gear and hyperbolic pinion's concave side

# SPIRAL BEVEL GEAR CUTTER

INSIDE FINISHING CUTTER OF NEW STRUCTURE



AVG DIAMETER	No. OF TEETH	DN	CUTTING DEPTH	BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER
5"	12	113~136.5	9.5	53.625	58.221	1:24
				55.625		
6"	12	132.75~169.75	12.7	60.625		
				65.125		
				67.75		
7.5"	16	153.25~191.75	12.7	72.25		
				69.5		
				74.5		
9"	20	176~271.75	14.2	80.875		
				87.25		
				93.625		
12"	24	262.25~339.75	19.4	96.75		
				103.125		
				108.125		
14"	28	318.5~394.8	25.4	122.375		
				130		
				138.875		
16"	32	343.75~459.5	25.4	146.5		
				147.9		
				152.09		
18"	36	447.75~538.25	25.4	169.15		
				174.15		
				163.375		
18"	24	443.5~536.25	38	174.25		
				184.875		
				195.25		
18"	36	447.75~538.25	25.4	205.25		
				215.375		
				225.5		
18"	36	447.75~538.25	25.4	235.625		
				204.5		
				215.875		
18"	36	447.75~538.25	25.4	227.375		
				126.966 126.835 L=22		
				126.835 L=22		

■ For finishing cutting of spiral bevel gear and hyperbolic pinion's convex side

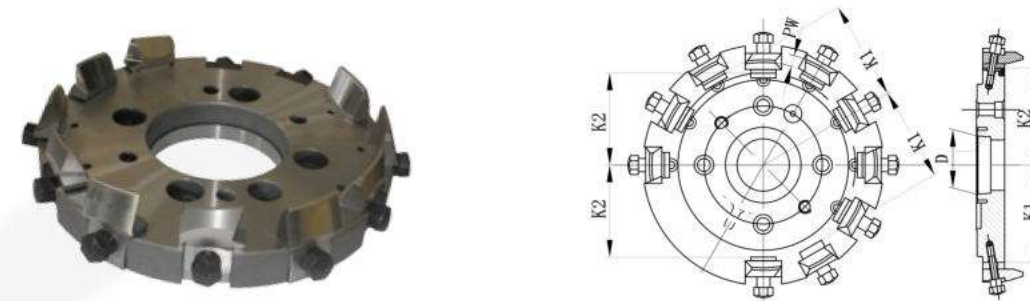
# SPIRAL BEVEL GEAR CUTTER

SINGLE CYCLE FINISHING CUTTER



AVG DIAMETER	No. OF TEETH	$\alpha W$ $\alpha W$ OUTSIDE BLADE	$\alpha N$ $\alpha N$ INSIDE BLADE	PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER
						K1	K2		
5"	8	20°~25°	20°~25°	1.7~3.75	12.7	57.15	53.34	58.221	1:24
6"				1.7~3.75	12.7	69.85	66.04		
7.5"				1.75~5.0	12.6	87.63	83.82		
9"				1.75~5.0	12	106.68	102.87		
12"				1.75~6.5	22.8	146.05	135.89		

■ For finishing cutting of spiral bevel gear, cutters are having both axial and radial steps

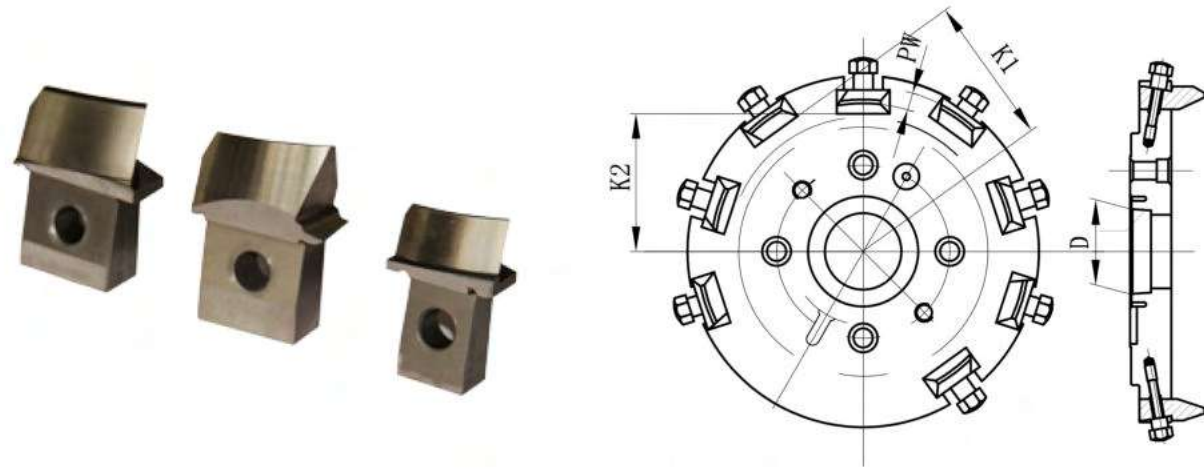


AVG DIAMETER	No. OF TEETH	$\alpha W$ $\alpha W$ OUTSIDE BLADE	$\alpha N$ $\alpha N$ INSIDE BLADE	PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER
						K1	K2		
5"	10	20°~25°	20°~25°	1.7~3.75	12.7	57.15	53.34	58.221	1:24
6"				1.7~3.75	12.7	69.85	66.04		
7.5"				1.75~5.0	12.6	87.63	83.82		
9"				1.75~5.0	12	106.68	102.87	126.966	
12"				1.75~6.5	22.8	142.55	135.89		
14"				1.75~7.5	25.4	172.72	160.02		
16"	1.75~7.5	25.4	191.15	184.15					

■ For finishing cutting of spiral bevel gear, cutters aren't having both axial and radial steps. The parallels on cutter body are having steps, after assembly the cutters are having radial steps. If it has step tolerance, it can be adjusted by adjusting screw. In one cutter different point width can be adjusted by changing stepped parallel.

# SPIRAL BEVEL GEAR CUTTER

HELIXFORM FINISHING CUTTER

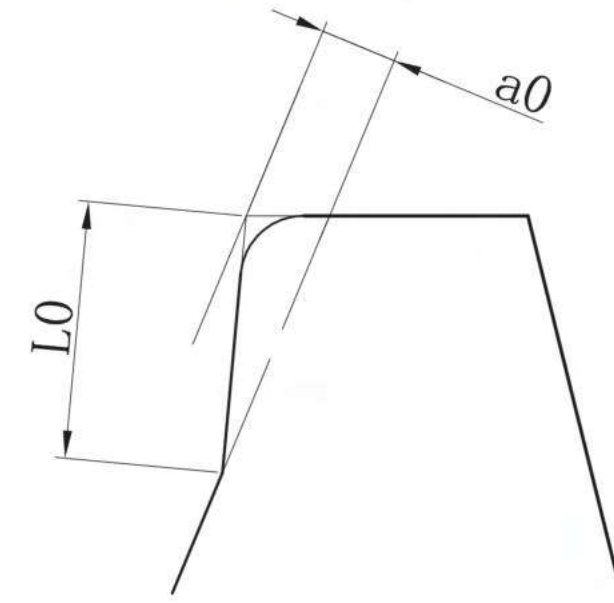


AVG DIAMETER	No. OF TEETH	OUTSIDE BLADE	INSIDE BLADE	POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		TAPER-BORE DIAMETER	TAPER
						K1	K2		
5"	8	24°	10°	1.7~3.75	13	57.15	53.34	58.221	1:24
6"					13	69.85	66.04		
7.5"				1.75~5.0	14.3	87.63	83.82		
9"					17.8	106.68	102.87		

■ For finishing cutting of spiral bevel gear Helix form, cutters are having both axial and radial steps with axial motion

# SPIRAL BEVEL GEAR CUTTER

TOPPER' S SYMBOL LETTER AND SIZES FOR FINISHING CUTTER BLADE

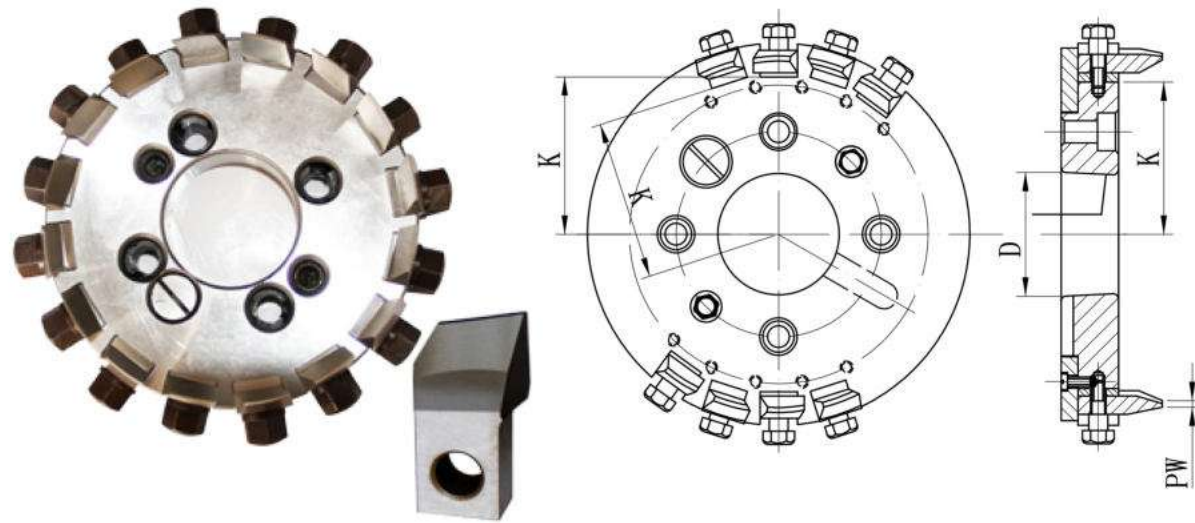


	A	B	C	D	E	F	M	W	Z
L0	3.180	2.680	2.160	1.910	1.650	1.270	5.970	4.950	3.980
a0	0.144	0.121	0.980	0.086	0.075	0.057	0.270	0.224	0.180

CUTTER NO.											
0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2
6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2
12	12 1/2	13	13 1/2	14	14 1/2	15	15 1/2	16	16 1/2	17	17 1/2
18	18 1/2	19	19 1/2	20	20 1/2						

# SPIRAL BEVEL GEAR CUTTER

ALTERNATE ROUGHING CUTTER OF OLD STRUCTURE

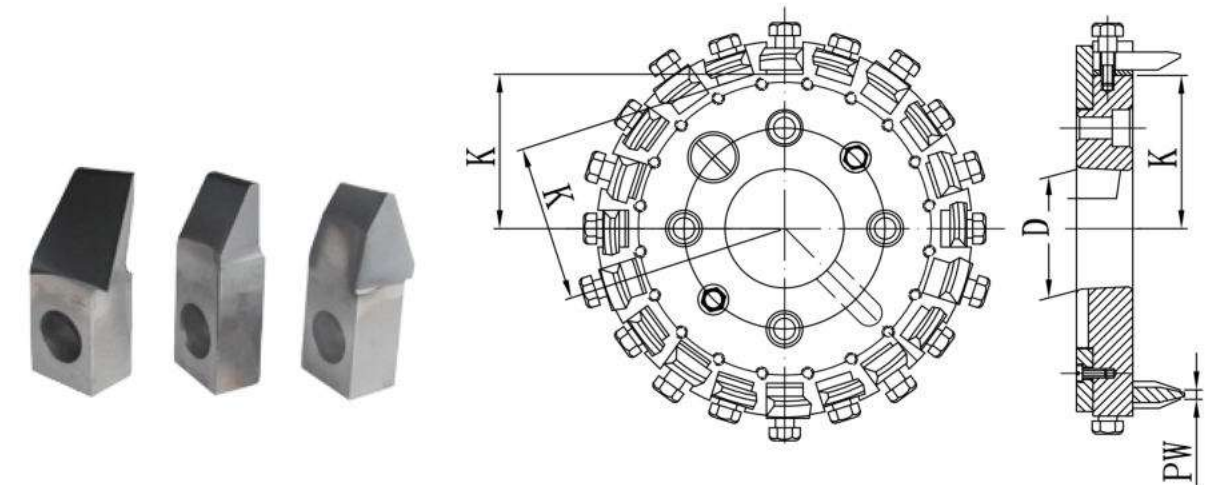


AVG DIAMETER	No OF TEETH		PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
	aW OUTSIDE BLADE	aN INSIDE BLADE					
4.5"	6	6	0.5-2.5	48.674	25.4	1:12	9.5
5"	6	6	0.5-3.25	55.024	25.4	1:12	9.5
6"	8	8	0.5-3.25	67.724	58.196	1:24	12.7
7.5"	10	10	0.5-4.25	85.852	58.196	1:24	12.7
9"	12	12	0.5-4.25	104.902	58.196	1:24	14.2
12"	16	16	0.75-5.5	140.462	126.96	1:24	19.4
14"	16	16	0.75-6.5	161.96	126.96	1:24	25.4
16"	20	20	0.75-6.5	188	126.96	1:24	25.4
18"	12	12	1.27-6.5	210	215.8	-	25.4
	16	16					

■ For roughing cutting of spiral bevel gear and hyperbolic gear or pinion

# SPIRAL BEVEL GEAR CUTTER

TRI-PLEX ROUGHING CUTTER OF OLD STRUCTURE

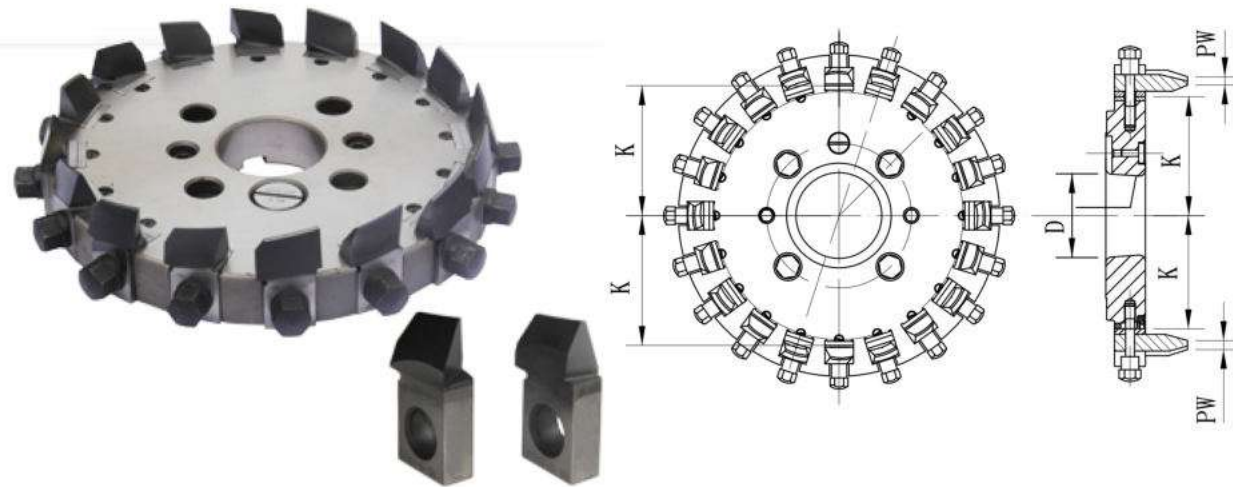


AVG DIAMETER	No OF TEETH			PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
	aW OUTSIDE BLADE	aN INSIDE BLADE						
6"	4	4	8	2.0-3.25	67.724	58.196	1:24	9.5
7.5"	5	5	10	2.0-4.25	85.852	58.196	1:24	12.7
9"	6	6	12	2.0-5.5	104.902	58.196	1:24	14.2
12"	8	8	16	2.0-6.5	140.462	126.96	1:24	19.4
16"	10	10	20	2.0-6.5	188	126.96	1:24	25.4
18"	6	6	12	2.0-6.5	210	215.8	—	25.8
	8	8	16					

■ For roughing cutting of spiral bevel gear and hyperbolic gear

# SPIRAL BEVEL GEAR CUTTER

ALTERNATE FINISHING CUTTER OF OLD STRUCTURE



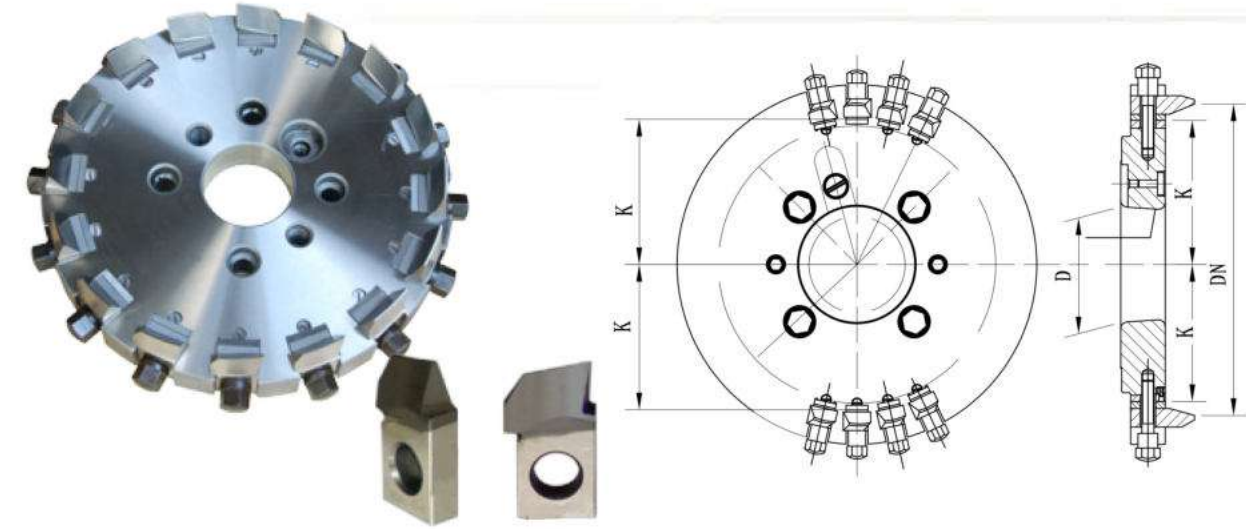
AVG DIAMETER	No.OF TEETH	PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5"	8	0.4-2.5	37.306	25.4	1:12	8
4.5"	8	0.5-3.25	48.674	25.4	1:12	9.5
5"	8	0.5-3.25	55.024	25.4	1:12	9.5
6"	12	0.5-3.25	67.724	58.196	1:24	12.7
7.5"	12	0.65-5.0	84.005	58.196	1:24	12.7
9"	16	0.65-5.0	103.055	58.196	1:24	14.2
12"	20	0.75-6.5	138.94	126.96	1:24	25.4
14"	24	0.75-6.5	161.625	126.96	1:24	25.4
16"	24	0.75-7.5	184.875	126.96	1:24	25.4
18"	24	0.75-7.5	211.362	215.8		25.4
21"	28	1.0-10.0	247.862	215.8		34
24"	32	1.0-10.0	284.362	215.8		37
28"	36	1.5-10.0	334.09	330		42
32"	32	2.0-12.6	375.015	330		49
		2.0-15.5				
40"	36	2.0-11.0	474.665	330		57
		2.0-15.5				

■ For finishing cutting of spiral bevel gear and hyperbolic gear or pinion

maximum productive capacity:60 inch disc and blade

# SPIRAL BEVEL GEAR CUTTER

INSIDE FINISHING CUTTER OF OLD STRUCTURE



AVG DIAMETER	No.OF TEETH	DN PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5"	8	86.1-96.1	37.306	25.4	1:12	8
4.5"	8	110.5-120.5	48.674	25.4	1:12	9.5
5"	8	123.67-133.17	55.024	25.4	1:12	9.5
6"	12	149.07-158.57	67.724	58.196	1:24	12.7
		166.34-180.84	74.48			
7.5"	12	179.04-193.54	80.83	58.196	1:24	12.7
		191.74-206.24	87.18			
		204.44-218.94	93.53			
9"	16	210.79-225.29	96.705	58.196	1:24	14.2
		223.49-237.99	103.055			
		233.65-248.15	108.135			
		246.35-260.85	114.485			
		265.15-283.65	122.43			
12"	20	280.39-298.89	130.05	126.96	1:24	19.4
		298.17-316.67	138.94			
		313.41-331.91	146.5			
		323.2-341.2	152.738			
14"	24	341-357	161.625	126.96	1:24	25.4
		356.3-372.3	169.245			
		380.99-403.49	180.35			
16"	24	398.77-421.27	189.24	126.96	1:24	25.4
		414.01-436.51	196.86			
		438.388-466.888	205.524			
18"	24	450.004-478.564	211.362	215.8	—	25.4
		458.7-487.2	215.68			
		510.364-538.864	241.512			
21"	28	523.064-551.564	247.862	215.8	—	34
		533.224-561.724	252.942			

■ For finishing cutting of spiral bevel gear and hyperbolic pinion's convex side

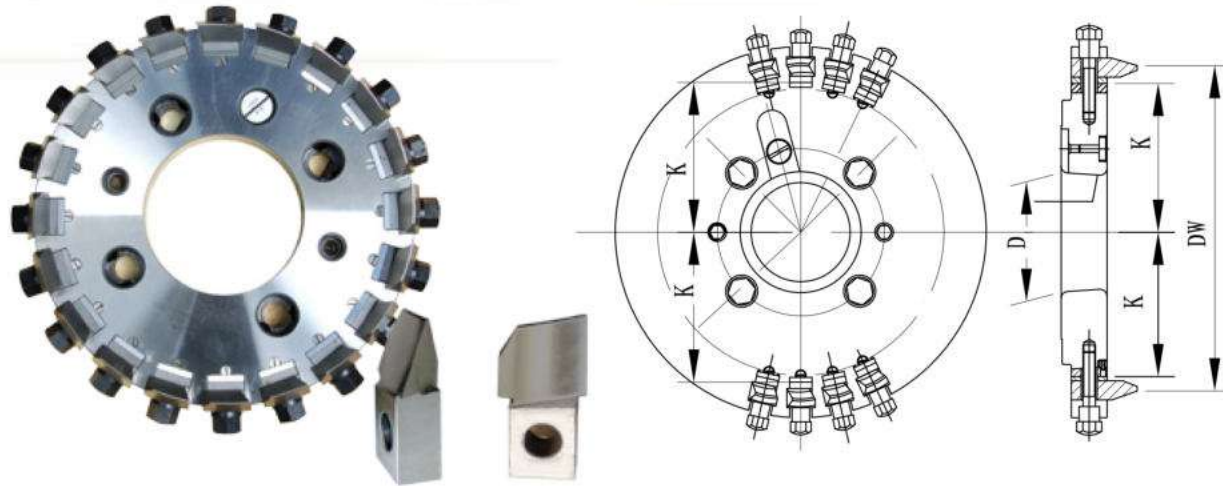
60"

maximum productive capacity:60 inch disc and blade

# SPIRAL BEVEL GEAR CUTTER

# SMALL DIAMETER SOLID CUTTER

OUTSIDE FINISHING CUTTER OF OLD STRUCTURE

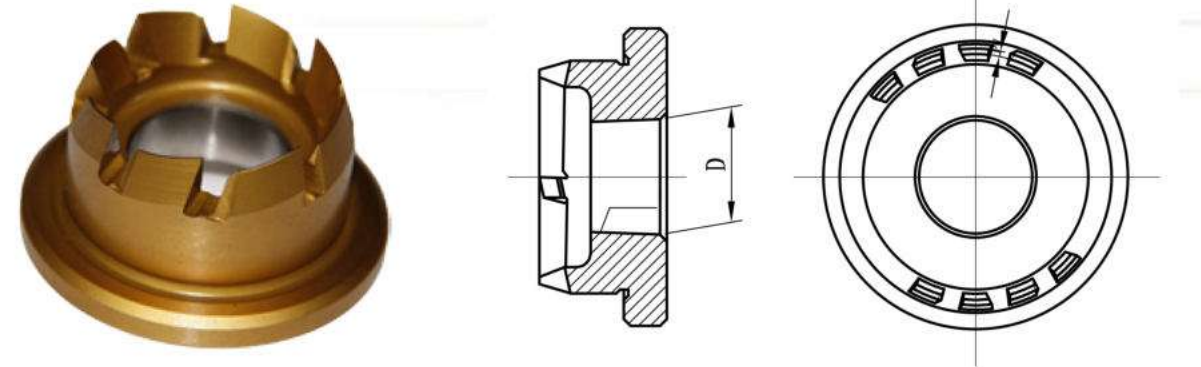


AVG DIAMETER	No. OF TEETH	DW	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5"	8	86.1~96.1	37.306	25.4	1:12	8
4.5"	8	110.5~120.5	48.674	25.4	1:12	9.5
5"	8	123.67~133.17	55.024	25.4	1:12	9.5
6"	12	149.07~158.57	67.724	58.196	1:24	12.7
7.5"	12	166.34~180.84	74.48	58.196	1:24	12.7
		179.04~193.54	80.83			
9"	16	191.74~206.24	87.18	58.196	1:24	14.2
		204.44~218.94	93.53			
		210.79~225.29	96.705			
12"	20	223.49~237.99	103.055	126.96	1:24	19.4
		233.65~248.15	108.135			
		246.35~260.85	114.485			
14"	24	265.15~283.65	122.43	126.96	1:24	25.4
		280.39~298.89	130.05			
		298.17~316.67	138.94			
16"	24	313.41~331.91	146.5	126.96	1:24	25.4
		323.2~341.2	152.738			
		341~357	161.625			
18"	24	356.3~372.3	169.245	215.8	—	25.4
		380.99~403.49	180.35			
		398.77~421.27	189.24			
21"	28	414.01~436.51	196.86	215.8	—	34
		438.388~466.888	205.524			
		450.004~478.564	211.362			
21"	28	458.7~487.2	215.68	215.8	—	34
		510.364~538.864	241.512			
		523.064~551.564	247.862			
		533.224~561.724	252.942			

■ For finishing cutting of spiral bevel gear and hyperbolic pinion's concave side

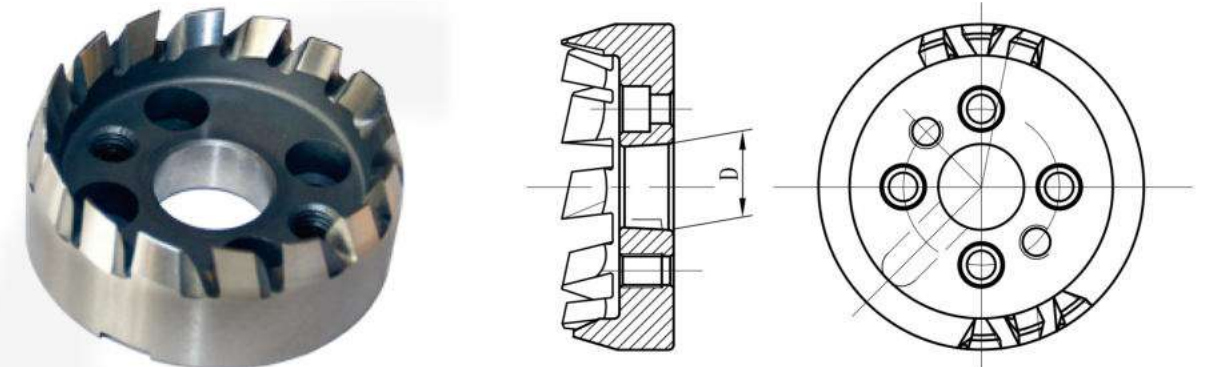
maximum productive capacity: 60 inch disc and blade

SMALL DIAMETER SOLID CUTTER



SPECIFICATION	No. OF TEETH	CUTTER NO.	POINT WIDTH	D TAPER-BORE DIAMETER	TAPER	Assembly style
0.7"~1"	4	0-24.5	0.15~0.7	25.4	1:12	Gland
1.1"	4, 8		0.2~0.85			
1.3"	8, 10		0.2~1.25			
1.5"	8, 12		0.2~1.25			
2"	4, 8, 16		0.3~1.25			

■ For cutting fine pitch gears and hyperbolic gear



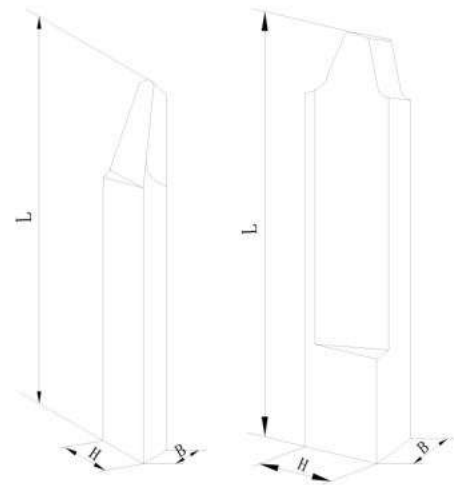
SPECIFICATION	No. OF TEETH	CUTTER NO.	POINT WIDTH	TAPER-BORE DIAMETER	TAPER	Assembly style
2.5"	8, 12	0-24.5	0.3~1.25	25.4	1:12	Screw
2.75"	8, 12, 16, 20		0.5~1.5			
3"	8, 16, 20		0.5~1.5			
3.5"	8, 16, 20		0.5~1.5			
4.5"	16, 20		3.2			
5"	20		4.1			
6"	20	4.1	58.196/58.221	1:24	4 Screw	

■ For cutting fine pitch gears and hyperbolic gear



# SPIRAL BEVEL GEAR CUTTER

OERLIKON CUTTER BLADE (KLINGELNBERG&GLEASON CUTTER)



H	B	L
9	7.5	95
12.7	10.16	100
15.24	15.24	104
17	13.5	110
19.69	13.97	108
19.69	15.24	108
20	16	115
21.59	14.732	108
22.8	14.7	108
27.94	13.97	110

CARBIDE OERLIKON CUTTER BLADE



# SPIRAL BEVEL GEAR CUTTER

AMK KLINGELNBERG CUTTER BLADE



KLINGELNBERG CUTTER BLADE

KLINGELNBERG CUTTER BLADE  
KLINGELNBERG CUTTER BODY AND PARTS

HPG-S KLINGELNBERG CUTTER BLADE



Type	Module	Type	Module	Type	Module	
R75	M1.5	R170	M7	R260	M8	
	M2.6		M8		M10	
M3.2	M10		M12			
M4	M12		M14			
M5	M10		M17			
R100	M4	R210	M8	GMC160	M10	
	M5		M10		M12	
	M6		M12		M14	
	M7		M14		M17	
R135	M4	R210	M8		GMC160	M10
	M5		M10			M12
	M6		M12	M14		
R75	M1.5	R170	M7	R260		M8
	M2.6		M8			M10
M3.2	M10		M12			
M4	M12		M14			
M5	M10		M17			
R100	M4	R210	M8	GMC160	M10	
	M5		M10		M12	
	M6		M12		M14	
	M7		M14		M17	
R135	M4	R210	M8		GMC160	M10
	M5		M10			M12
	M6		M12	M14		

■Klingelberg HPG cutting blade is for Klingelberg cyclo palloid geometry finishing spiral bevel gear after heat treatment. Cutting edge with CNB and welded the whole body,with the features of consistency and rigidity.The gear area is good,finish high.

KLINGELNBERG CUTTER BLADE



R135: M4、M5、M6、M7  
R170: M7、M8、M10、M12  
R210: M8、M10、M12、M14  
R260: M8、M12  
R75、R100、R135、R170、R210、R260

# SPIRAL BEVEL GEAR CUTTER

SOLID STRAIGHT BEVEL GEAR CUTTER



G104E (24-110) T-A, B, C, D, E, F  
G104E (24-110) U-A, B, C, D, E, F

DOULBE-DISC STRAIGHT BEVEL GEAR CUTTER BLADE



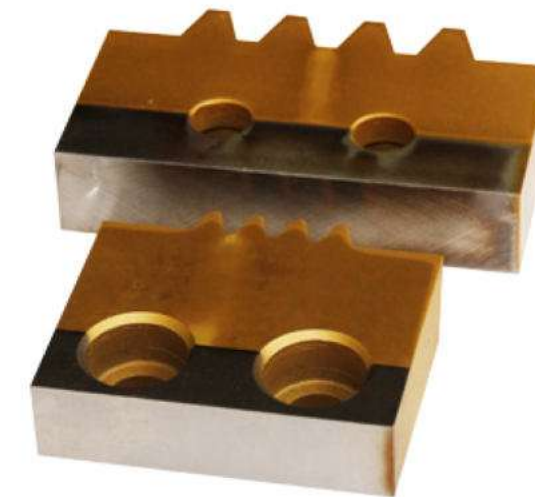
concave angle	1°30" , 2°30" , 5°
blade point	0.4-4
No. of blade	22, 28, 36

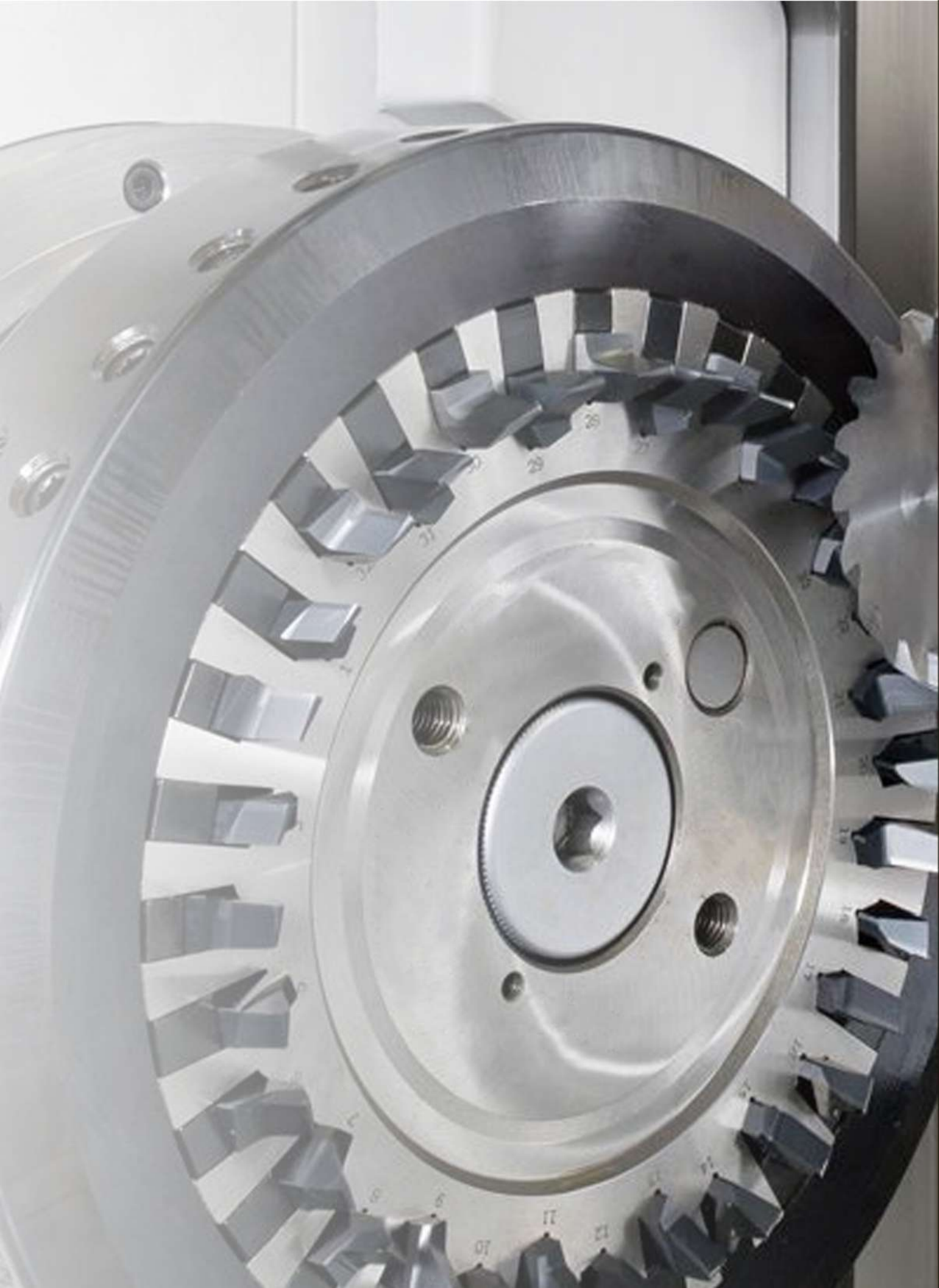
# SPIRAL BEVEL GEAR CUTTER

BEVEL GEAR CUTTER BLADE



RACK TYPE CUTTER





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