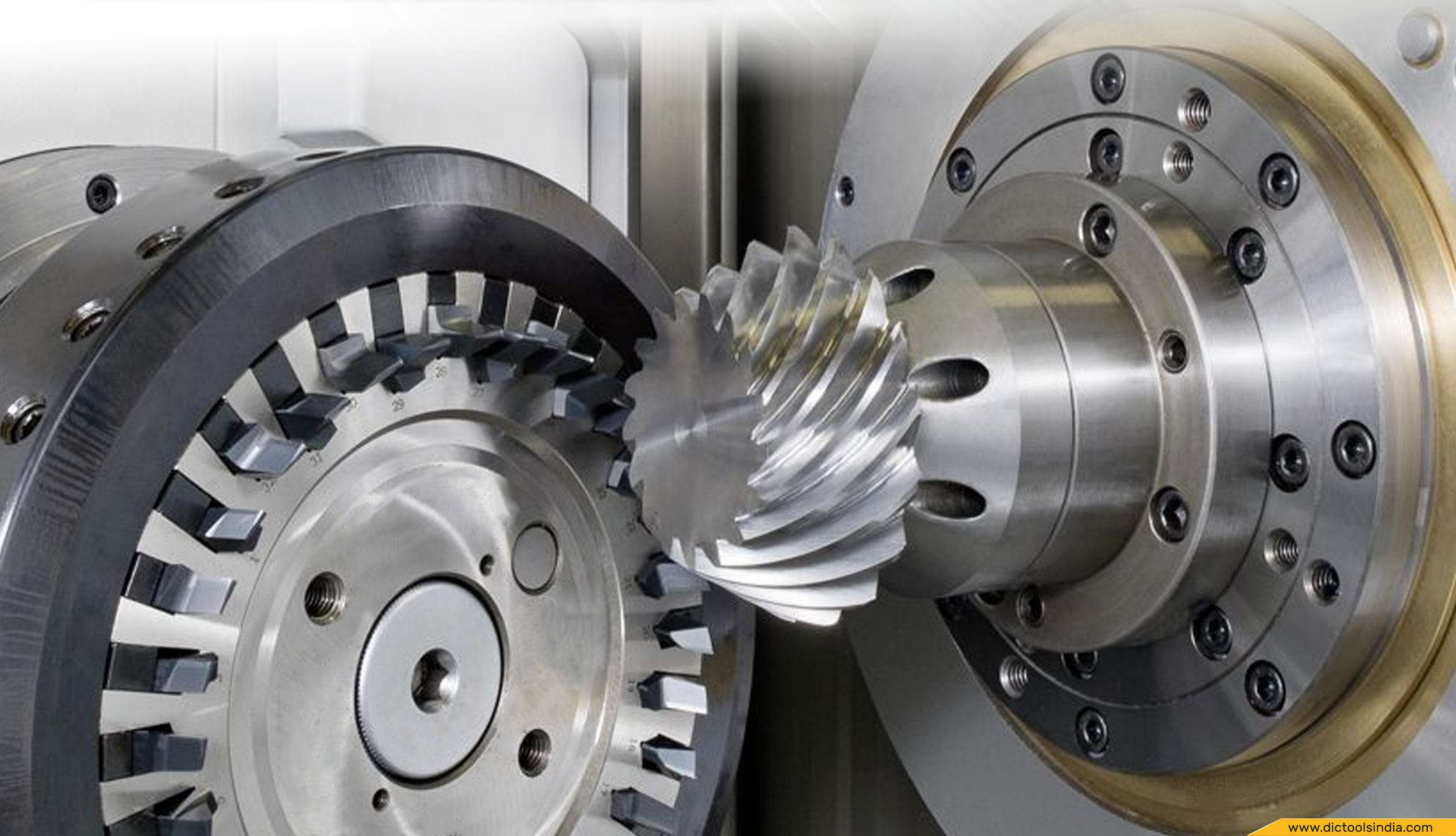
BEVEL GEAR CUTTING TOOLS

DiC TOOLS

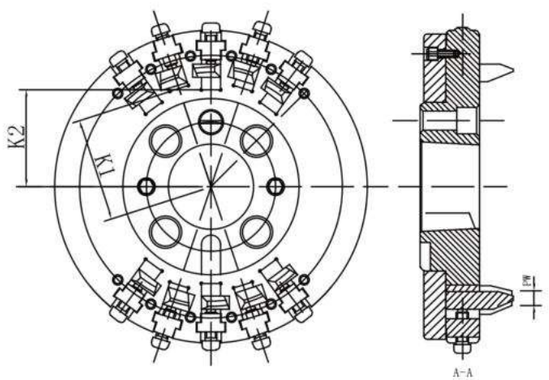
A Brand by Dedicated Impex Co.



SPIRAL BEVEL GEAR CUTTER

TRIPLEX ROUGHING CUTTER OF NEW STRUCTURE



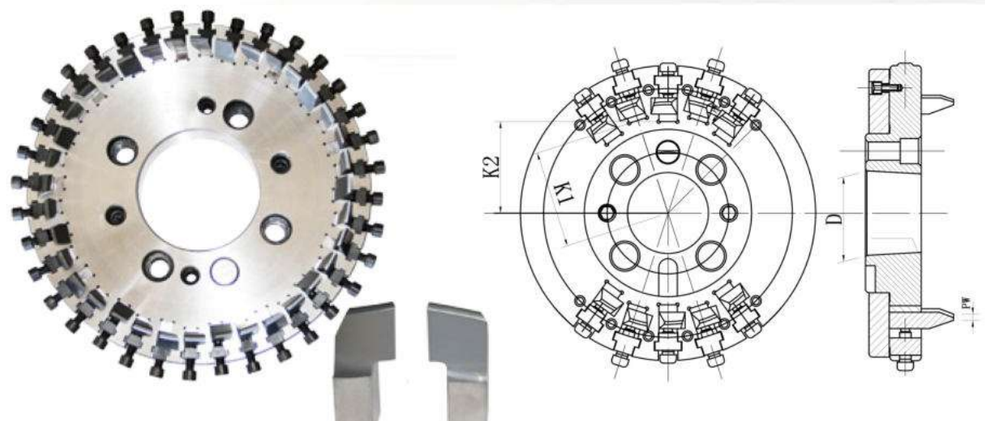


AVG DIAMETER	No.OF TEETH			POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER
	OUTSIDE BLADE	BOTTOM BLADE	INSIDE BLADE			K1	K2		
6″	5	10	5	1.8~3.8	12.7	68.825	65.025	58.196	1:24
7.5″	6	12	6	2.0~5.0	12.7	88.775	81.925		
9″	7	14	7	2.0~5.0	14.2	107.825	100.975		
10.5″	8	16	8	2.0~6.5	19.4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

SPIRAL BEVEL GEAR CUTTER

ALTERNATE ROUGHING CUTTER OF NEW STRUCTURE



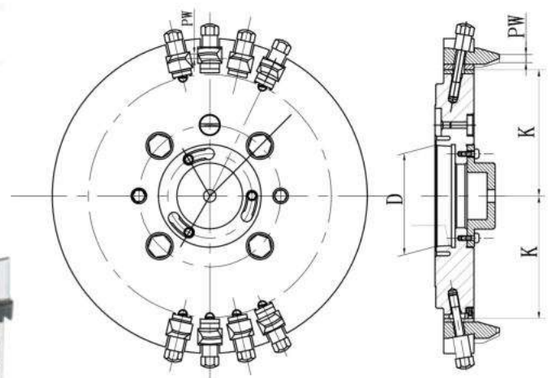
AVG DIAMETER	No.OF TEETH		PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE		D TAPER-BORE DIAMETER	TAPER
	αW OUTSIDE BLADE	αN INSIDE BLADE			K1	K2		
4.5″	6	6	0.5~2.5	9.5	47.325	----	58.221	1:24
5″	8	8	0.5~3.8	9.5	53.675	----		
6″	10	10	0.5~3.8	12.7	68.825	65.025		
7.5″	12	12	0.75~5.0	12.7	88.775	81.925		
9″	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		
16″	20	20	1.27~7.6	25.4	193.05	180.35	126.966 126.835 L=22	
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

ALTERNATE FINISHING CUTTER OF NEW STRUCTURE





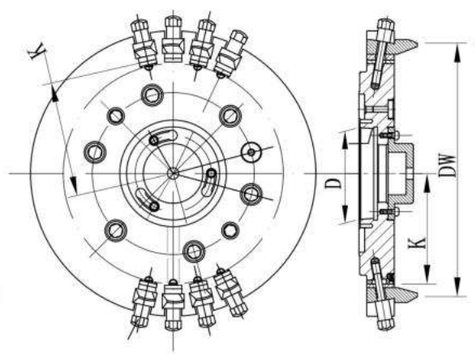
AVG DIAMETER	OUTSIDE BLADE	OUTSIDE BLADE	POINT WIDTH	CUTTING DEPTH	BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER
4.5″	4	4	0.5~2.5	9.5	47.275	58.221	1:24
5″	6	6	0.5~3.8	9.5	53.625		
6″	6	6	0.5~3.8	12.7	65.125		
	8	8					
7.5″	8	8	0.75~5.0	12.7	84.075		
9″	10	10		14.2	103.125		
10.5″	10	10	1.7~7.6	19.4	120	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

SPIRAL BEVEL GEAR CUTTER

OUTSIDE FINISHING CUTTER OF NEW STRUCTURE



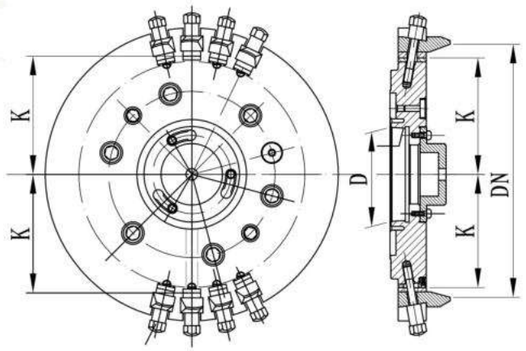


AVG DIAMETER	No.OF TEETH	DW	CUTTING DEPTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER
5″	12	113.5~134.25	9.5	53.625	58.221	1:24
				53.625		
6″	12	135~167.5	12.7	60.625		
				65.125		
	16			67.75		
				72.25		
7.5″	16	156~187.25	12.7	69.5		
				74.5		
				80.875		
				87.25		
9″	20	175.75~260	14.2	93.625		
				96.75		
				103.125		
				108.125		
12″	24	262~333.5	19.4	122.375	126.966	
				130		
	28			138.875		
				146.5		
14″	28	318.6~382	25.4	147.9		
				152.09		
	32			169.15		
				174.15		
16″	32	346.5~451.5	25.4	163.375	126.966 126.835 L=22	
				174.25		
				184.875		
	36			195.25		
				205.25		
18″	36	447.75~517.75	25.4	215.375	126.835 L=22	
				225.5		
				235.625		
	24	438.5~515.75	38	204.5		
				215.875		
				227.375		

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

INSIDE FINISHING CUTTER OF NEW STRUCTURE



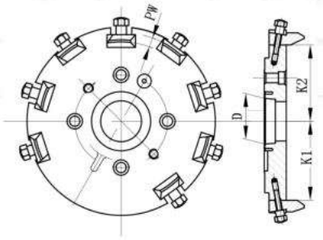


AVG DIAMETER	No.OF TEETH	DN	CUTTING DEPTH	BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER
5″	12	113~136.5	9.5	53.625	58.221	1:24
				55.625		
6″	12	132.75~169.75	12.7	60.625		
	16			65.125		
				67.75		
				72.25		
7.5″	16	153.25~191.75	12.7	69.5		
				74.5		
				80.875		
				87.25		
9″	20	176~271.75	14.2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

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

SINGLE CYCLE FINISHING CUTTER

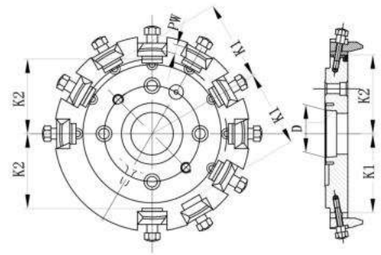




AVG DIAMETER	No.OF TEETH	αW αW OUTSIDE BLADE	αN αN INSIDE BLADE	PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE K1	BODY DISTANCE K2	D TAPER-BORE DIAMETER	TAPER
5″	8	20°~25°	20°~25°	1.7~3.75	12.7	57.15	53.34	58.221	1:24
6″				1.7~3.75	12.7	69.85	66.04		
7.5″				1.75~5.0	12.6	87.63	83.82		
9″				1.75~5.0	12	106.68	102.87		
12″				1.75~6.5	22.8	146.05	135.89	126.966	

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



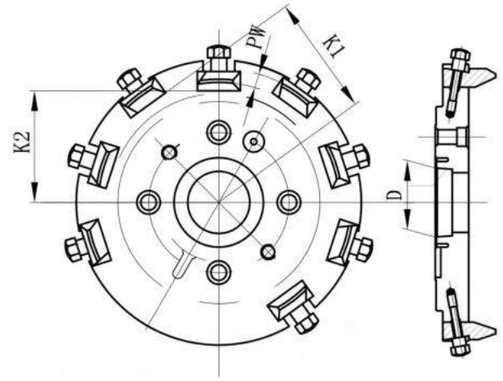


AVG DIAMETER	No.OF TEETH	αW αW OUTSIDE BLADE	αN αN INSIDE BLADE	PW POINT WIDTH	CUTTING DEPTH	BODY DISTANCE K1	BODY DISTANCE K2	D TAPER-BORE DIAMETER	TAPER
5″	10	20°~25°	20°~25°	1.7~3.75	12.7	57.15	53.34	58.221	1:24
6″				1.7~3.75	12.7	69.85	66.04		
7.5″				1.75~5.0	12.6	87.63	83.82		
9″				1.75~5.0	12	106.68	102.87		
12″				1.75~6.5	22.8	142.55	135.89	126.966	
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.

HELIXFORM FINISHING CUTTER

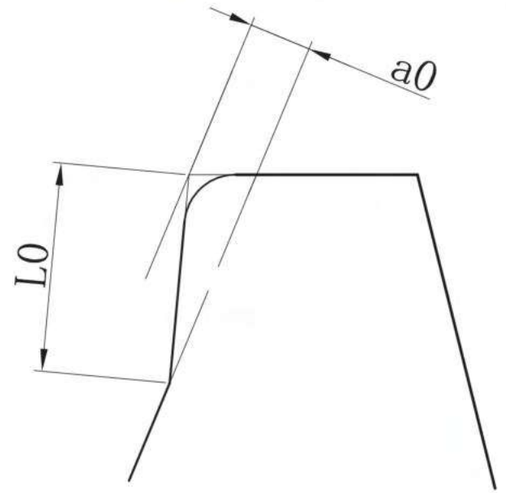




AVG DIAMETER	No.OF TEETH	OUTSIDE BLADE	INSIDE BLADE	POINT WIDTH	CUTTING DEPTH	BODY DISTANCE K1	BODY DISTANCE K2	TAPER-BORE DIAMETER	TAPER
5″	8	24°	10°	1.7~3.75	13	57.15	53.34	58.221	1:24
6″					13	69.85	66.04		
7.5″				1.75~5.0	14.3	87.63	83.82		
9″					17.8	106.68	102.87		

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

TOPPER' S SYMBOL LETTER AND SIZES FOR FINISHING CUTTER BLADE



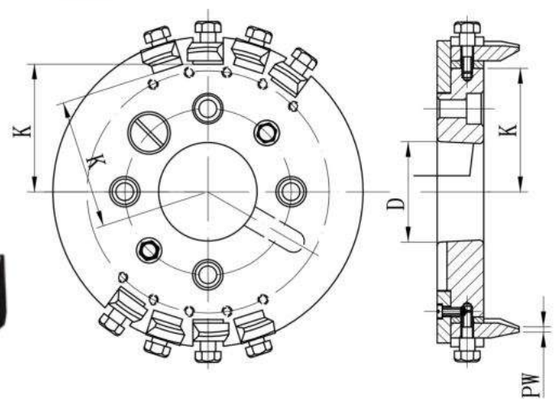
	A	B	C	D	E	F	M	W	Z
L0	3.180	2.680	2.160	1.910	1.650	1.270	5.970	4.950	3.980
a0	0.144	0.121	0.980	0.086	0.075	0.057	0.270	0.224	0.180

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





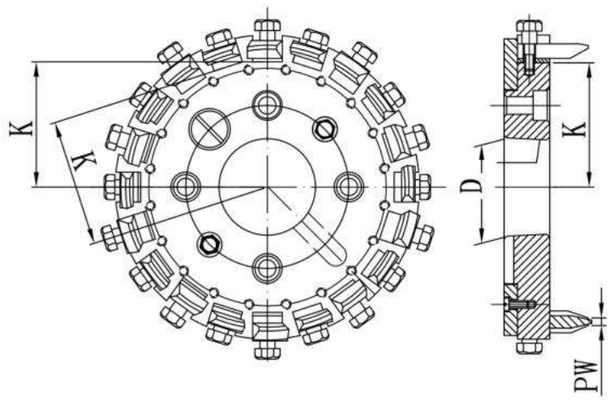
AVG DIAMETER	No.OF TEETH αW OUTSIDE BLADE	No.OF TEETH αN INSIDE BLADE	PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
4.5″	6	6	0.5~2.5	48.674	25.4	1:12	9.5
5″	6	6	0.5~3.25	55.024	25.4	1:12	9.5
6″	8	8	0.5~3.25	67.724	58.196	1:24	12.7
7.5″	10	10	0.5~4.25	85.852	58.196	1:24	12.7
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



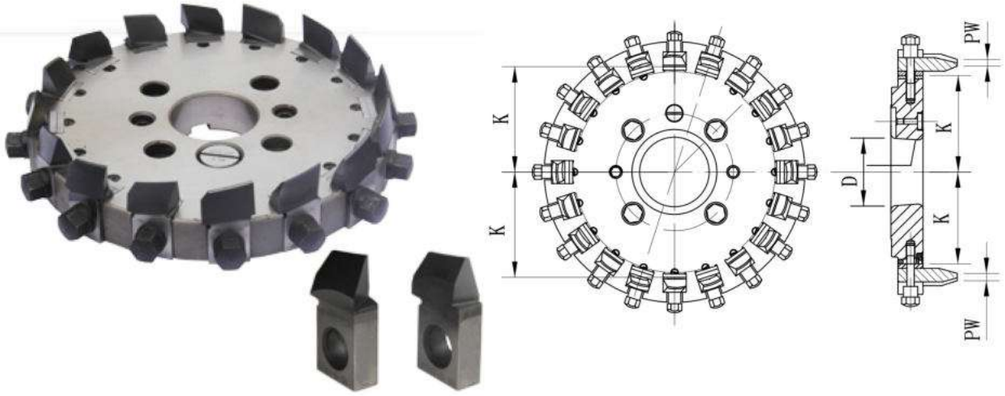


AVG DIAMETER	No.OF TEETH αW OUTSIDE BLADE	No.OF TEETH αN INSIDE BLADE		PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
6″	4	4	8	2.0~3.25	67.724	58.196	1:24	9.5
7.5″	5	5	10	2.0~4.25	85.852	58.196	1:24	12.7
9″	6	6	12	2.0~5.5	104.902	58.196	1:24	14.2
12″	8	8	16	2.0~6.5	140.462	126.96	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



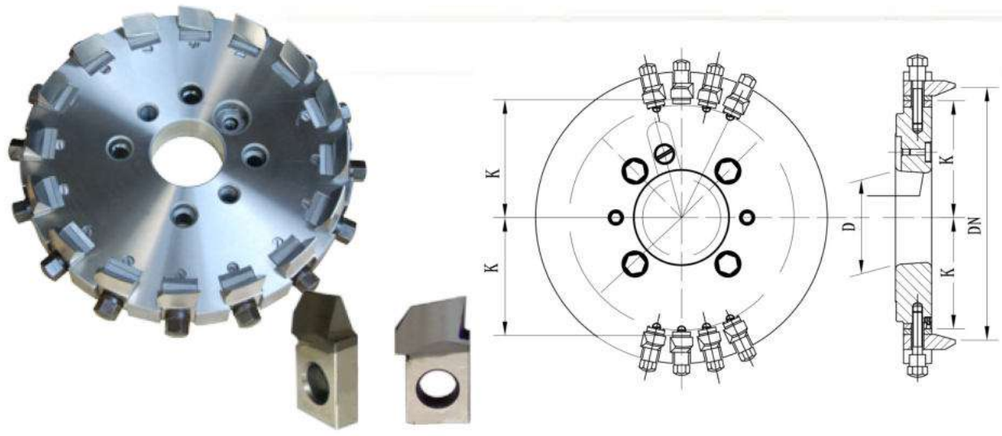
AVG DIAMETER	No.OF TEETH	PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5″	8	0.4~2.5	37.306	25.4	1:12	8
4.5″	8	0.5~3.25	48.674	25.4	1:12	9.5
5″	8	0.5~3.25	55.024	25.4	1:12	9.5
6″	12	0.5~3.25	67.724	58.196	1:24	12.7
7.5″	12	0.65~5.0	84.005	58.196	1:24	12.7
9″	16	0.65~5.0	103.055	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



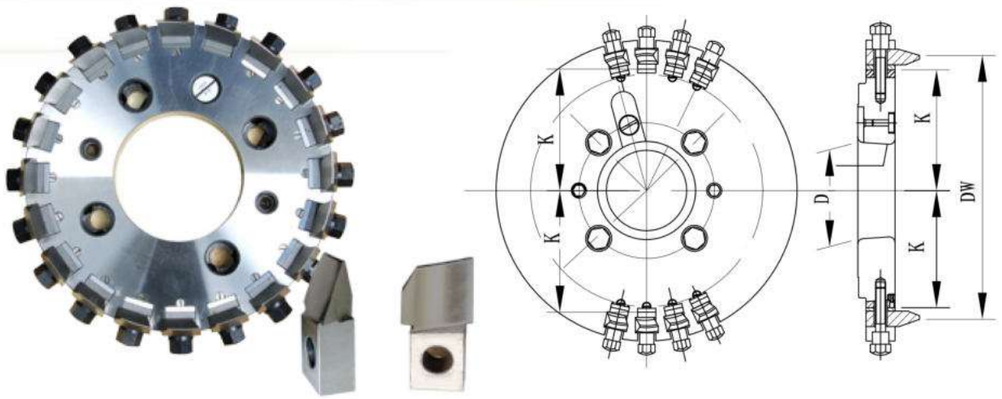
AVG DIAMETER	No.OF TEETH	DN PW POINT WIDTH	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5″	8	86.1~96.1	37.306	25.4	1:12	8
4.5″	8	110.5~120.5	48.674	25.4	1:12	9.5
5″	8	123.67~133.17	55.024	25.4	1:12	9.5
6″	12	149.07~158.57	67.724	58.196	1:24	12.7
7.5″	12	166.34~180.84	74.48	58.196	1:24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

OUTSIDE FINISHING CUTTER OF OLD STRUCTURE



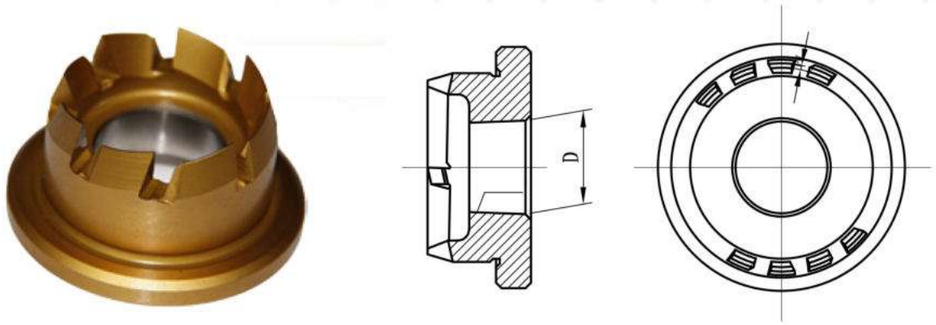
AVG DIAMETER	No.OF TEETH	DW	K BODY DISTANCE	D TAPER-BORE DIAMETER	TAPER	CUTTING DEPTH
3.5″	8	86.1~96.1	37.306	25.4	1:12	8
4.5″	8	110.5~120.5	48.674	25.4	1:12	9.5
5″	8	123.67~133.17	55.024	25.4	1:12	9.5
6″	12	149.07~158.57	67.724	58.196	1:24	12.7
7.5″	12	166.34~180.84	74.48	58.196	1:24	12.7
		179.04~193.54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

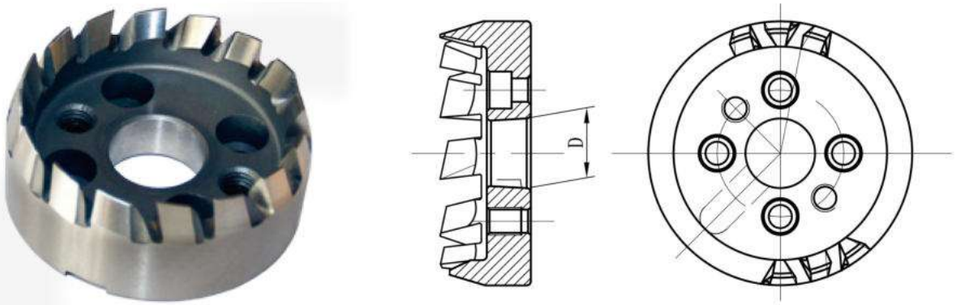
SPIRAL BEVEL GEAR CUTTER

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

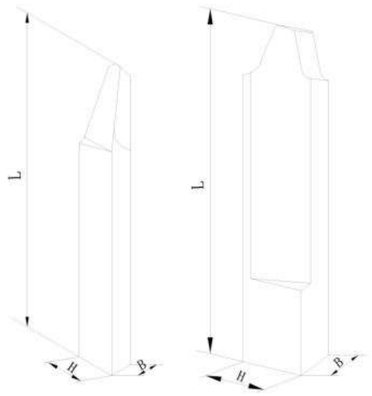


SPECIFICATION	No.OF TEETH	CUTTER NO.	POINT WIDTH	TAPER-BORE DIAMETER	TAPER	Assembly style
2.5″	8、12	0~24.5	0.3~1.25	25.4	1:12	Screw
2.75″	8、12、16、20		0.5~1.5			4 Screw
3″	8、16、20		0.5~1.5			
3.5″	8、16、20		0.5~1.5			
4.5″	16、20		3.2			
5″	20		4.1	58.196/58.221	1:24	
6″	20		4.1			

■For cutting fine pitch gears and hyperbolic gear

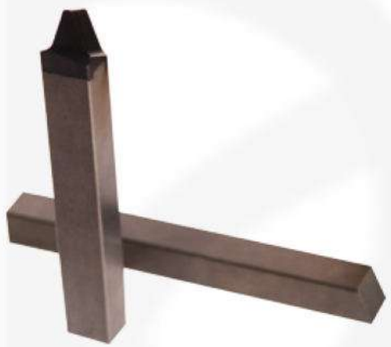
OERLIKON CUTTER BLADE (KLINGELNBERG&GLEASON CUTTER)





H 9	B 7.5	L 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



AMK KLINGELNBERG CUTTER BLADE



KLINGELNBERG CUTTER BLADE

KLINGELNBERG CUTTER BLADE
KLINGELNBERG CUTTER BODY AND PARTS

HPG-S KLINGELNBERG CUTTER BLADE



Type	Module
R75	M1.5
R100	M2.6
	M3.2
	M4
	M5
R135	M4
	M5
	M6
	M7

Type	Module
R170	M7
	M8
	M10
	M12
R210	M8
	M10
	M12
	M14

Type	Module
R260	M8
	M10
	M12
	M14
	M17
GMC160	M10
	M12
	M14
	M17
	M24
	M28

■Klingelnberg HPG cutting blade is for Kingelnberg 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、R26
0

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

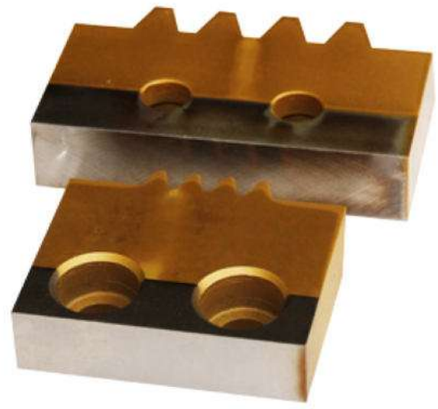


concave angle	1°30″ 、2°30″ 、5°
blade point	0.4-4
No. of blade	22、28、36

BEVEL GEAR CUTTER BLADE



RACK TYPE CUTTER





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DiC TOOLS

A Brand by Dedicated Impex Co.