

# COLUMBIA GEAR

INTEGRATED SOLUTIONS FOR SUCCESS



## CUSTOMER DRIVEN

Whatever it takes. That's the philosophy on which Columbia Gear's success is built, and on which we continue to thrive. It's evidenced in such significant responses as plant expansions, ongoing major capital expenditures, and production reorganization in response to specific new projects and clients.

You'll see Columbia Gear's commitment to solutions on a human level as well. Our team response includes representatives from design through production on every project, enhancing overall efficiency and communication. Responding to customer needs with this "no barriers" attitude is yet another reason behind Columbia Gear's continued status as an industry leader.

MACHINING CAPABILITIES

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### HORIZONTAL LATHES WITH LIVE TOOLING

MIN. DIA.	MAX. DIA.	SWING
2"	24"	28"

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### VERTICAL LATHES WITH LIVE TOOLING

MIN. DIA.	MAX. DIA.	SWING
12"	63"	72"

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### VERTICAL MACHINING CENTERS

LENGTH (X)	WIDTH (Y)	DEPTH (Z)
0 - 60"	0 - 24"	0 - 18"

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### HORIZONTAL MACHINING CENTERS

LENGTH (X)	WIDTH (Y)	DEPTH (Z)
0 - 98"	0 - 122"	0 - 88"

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### INTERNAL SPUR AND HELICAL GEARS

	SHAPED	SHAVED	GROUND
MAXIMUM I.O./O.D.	63"	18" – 22"	63"
MINIMUM O.D.	.5"	7.0"	8.7"
MAXIMUM FACE WIDTH	13"	15"	13.7"
DIAMETRAL PITCH	2	2.5 – 24	1.0 – 32
MINIMUM NO. OF TEETH	2	N/A	N/A
AGMA LEVEL 2000 / 2015	10 / A7	10 / A7	15 / A2
TOOTH FINISH	150 – 75	90 – 25	75 – 10
MAXIMUM HELIX ANGLE	45°	-	Variable

### EXTERNAL SPUR AND HELICAL GEARS

	HOBBED	SHAVED	GROUND
MAXIMUM O.D.	79"	18" – 22"	63"
MINIMUM O.D.	.5"	.5"	.5"
MAXIMUM FACE WIDTH	51"	15"	40"
DIAMETRAL PITCH RANGE	1.5 – 24	2.5 – 24	1.6 – 24
MINIMUM NO. OF TEETH	2	10	1
AGMA LEVEL 2000 / 2015	11 / A6	11 / A6	15 / A2
TOOTH FINISH	150 – 75	90 – 25	75 – 10
MAXIMUM HELIX ANGLE	45°	45°	45°

\*Engineering review required for angle in excess of 45°

### SPLINES

	HOBBED	BROACH	GROUND
MAXIMUM O.D.	78"	20"	63"
MINIMUM O.D.	.5"	.5"	.5"
MAXIMUM PART LENGTH	72"	6"	40"
DIAMETRAL PITCH	3/6 – 48/96	5/10 – 74.2 serration	1.6 & up
MINIMUM NO. OF TEETH	6	1	1
SPLINE CLASS	4 – 7	4 – 7	4 or better
SPLINE FINISH	150 – 75	120 - 63	75 – 10

### MACHINING, ASSEMBLY AND RELATED SERVICES

Assembly, Nitral Etching, Painting, Shot Peen, Magnetic Particle Testing, Ultrasonic Inspection, Electrical Runout Inspection, Balancing, Heat Treat Lab, Product Testing and Gear Design



**(800) 323-9838**