

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

HORIZONTAL LATHES WITH LIVE TOOLING

MIN. DIA.	MAX. DIA.	SWING
1"	35"	39"

VERTICAL LATHES WITH LIVE TOOLING

MIN. DIA.	MAX. DIA.	SWING
12"	63"	78"

VERTICAL MACHINING CENTERS

LENGTH (X)	WIDTH (Y)	DEPTH (Z)
0 – 40"	0 – 26"	0 – 20"

HORIZONTAL MACHINING CENTERS

WIDTH (X)	HEIGHT (Y)	DEPTH (Z)
0 – 66"	0 – 55"	0 – 45"





EXTERNAL GEARS / SPLINES

	HOBBED	SHAPED	SHAVED	GROUND
MAXIMUM O.D.	2000mm (79")	1600mm (63")	325mm (12.8")	1600mm (63")
MINIMUM O.D.	6mm (.24")	12mm (.47")	12mm (.47")	12mm (.47")
MAXIMUM FACE WIDTH	1300mm (51")	350mm (13.7")	152mm (6")	1000mm (39")
MAXIMUM MODULE / PITCH	17 / 1.5	17 / 1.5	10 / 2.5	20 / 1.27
MAXIMUM HELIX ANGLE *	45°	45°	45°	45°
QUALITY LEVEL	A6 / Q11	A7 / Q10	A6 / Q11	A2 / Q15
TOOTH FINISH (Ra)	1.5 (59)	1.5 (59)	.8 (31)	.3 (12)

*Engineering review required for angle in excess of 45°

INTERNAL GEARS / SPLINES

	BROACHED	SHAPED	GROUND
MAXIMUM O.D.	710mm (28")	1600mm (63")	1600mm (63")
MINIMUM O.D.	12mm (.47")	12mm (.47")	220mm (8.7")
MAXIMUM FACE WIDTH	152mm (6")	350mm (13.7")	350mm (13.7")
MAXIMUM MODULE / PITCH	5.08 / 5	17 / 1.5	17 / 1.5
MAXIMUM HELIX ANGLE *	Spur	45°	45°
QUALITY LEVEL	A7 / Q10	A7 / Q10	A2 / Q15
TOOTH FINISH (Ra)	1.5 (59)	1.5 (59)	.3 (12)

*Engineering review required for angle in excess of 45°

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



A SUBSIDIARY OF INDUSTRIAL MANUFACTURING COMPANY

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