



CINCINNATI GEARING SYSTEMS

Manufactured Domestically, Trusted Internationally.™

Gear Units | Component Gearing | Design Engineering | Heat Treating | ISO 9001:2015 | IATF 16949:2016

COMPONENT GEARING

Full-service precision gear manufacturing for prototype, production, and high volume runs.

PRODUCTS

Shafts Pinions Spur Gears Bull Gears Epicyclic Gearing
Internal and External Ground Gearing Single and Double Helical

TRANSPORTATION

Internal Combustion Engine
Electric Vehicles
Off-Highway
Automotive
Powertrain



MILITARY AND COMMERCIAL MARINE

Mobile Power Generation
Land, Surface, Subsea
Shipboard Power
Main Propulsion



INDUSTRIAL

Power Generation
Industrial Gases
Wind Energy
Oil and Gas
Mining



SERVICE AND TECHNICAL SUPPORT

Design Engineering Design Analysis Failure Analysis Reverse Engineering Rotor Dynamics
Gear Tooth Inspection Magnetic Particle Inspection Vibration Analysis Heat-Treating



ABOUT
Located in Cincinnati, Ohio, Cincinnati Gearing Systems (CGS) is a recognized leader in precision component gear manufacturing and design engineering. More than just a gear manufacturer, CGS offers customers over 115 years of experience in producing high-quality, reliable, and cost-effective component gearing and gear units for a wide range of power transmission applications. Configurations include epicyclic gear units, multiple pinion gear units, parallel shaft designs, vertical and horizontal offsets, dual and single input, single and double helical, and hybrid designs. With in-house full-service manufacturing, design engineering, testing, and heat-treating capabilities, CGS is your singlesource to satisfy your component gearing and gearbox requirements.



PRECISION GEAR MANUFACTURING & DESIGN ENGINEERING

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MACHINING CAPABILITIES

TOOTH GRINDING

External Diameter

Min. .75"
Max. 63"

Internal Diameter

Min. 5.0"
Max. 55"

Diametral Pitch

Min. 16 NDP
Max. .75 DP
Max. Face Width 39"
Max. Helix Angle 45⁰+/-

MILLING

Max. X Axis 200"
Min. X Axis 41.5"
Max. Y Axis 60"
Min. Y Axis 20"
Max. Z Axis 40"
Min. Z Axis 26"

HOBBIING

Min. OD .5"
Max. OD 149"
Min. NDP 64
Max. NDP 1.5
Max. Face Width 54"
Max. Helix Angle 45⁰

OD/ID SURFACE GRINDING

External

Max. OD 42"
Max. Length 96"

Internal

Min. OD .75"
Max. OD 32"
Min. ID .5"
Max. ID 24"
Bore Length 13.5"

GEAR SHAPING

Max. Internal 55"
Min. Internal 2"
Max. NDP 2
Min. NDP 24
Max. Face Width 9.4"

TURNING

Outside Dia. 106.3"
Max. Height 79"
Shaft Outside Dia. 32"
Shaft Length 144"

QUALITY

AGMA 2000 Q13
ISO 1328 A4
ISO 9001:2015
IATF 16949:2016

