

SPUR GEARS

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American Precision Gear Co., Inc. specializes in the custom manufacturing of tight tolerance internal and external custom spur gears. We work to your specifications and all critical contact surfaces are held to your tolerances (up to 0.0001"). We can provide you with AGMA Level 12 quality gears. Every spur gear we manufacture is put through our rigorous QA procedures. Both inch and metric unit spur gears are available.

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Spur Gear Specifications

Use	Spurs Gears are the most common type of gear designed to transmit motion and power
No. of Teeth	Up to 197 teeth
Pressure Angle	Up to 25 Degree Pressure Angle (20 degree pressure angle is typical)
DP - Diametral Pitch	Up to 250 + DP for fine pitch spur gears
Outside Diameter	We specialize in small diameter spur gears, down to 0.05" Up to 48" outside diameter
Face Width	Up to 1" face width available inches
Tolerances	We specialize in holding very tight tolerances on your small Spur Gear designs. We can provide up to ± 0.0001 "
Quality Control	Conforming to general Military Quality control requirements as follows: MIL-I-45208A, MIL-STD-45662A, ISO 9001:2000 compliant and ISO 13485 Medical Device Certification is pending.

Applications	Providing spur gears to the aerospace, and biomedical and instrumentation industries. We have created gears small enough for use inside the human body to perform pumping functions.
Quantities	We focus on high volume runs.
Lead Time	Average lead time on spur gear orders is 4-6 weeks
Preferred Drawing Formats	We prefer to accept CAD files of your designs in DXF format.

Capabilities

Industries	Aerospace Gears Defense Gears Government Gears Industrial Gears	Instrumentation Gears Medical Device Gears Military Gears Oil & Gas Gears
Bore Diameter	Up to 24" bored diameters available	
Hub Options	Spur Gears are available in Hubbed or Hubless versions. Set screw and other locking mechanisms are available for Hubbed versions.	
Materials	Steel 303 Stainless Steel 17-4 Stainless Steel 440 Heat Treated Stainless Steel Carbon Steel Chromium Stainless Steel Chromium Steel Chromium-Molybdenum Steel Chromium-Molybdenum-Vanadium Steel Chromium-Vanadium steel High Strength Steel (Impact™, MicroTec®, WHS-100™) High Temperature Steel Manganese Steel	Molybdenum Steel Nickel-Chromium Steel Nickel-Chromium-Molybdenum Steel Nickel-Molybdenum Steel Silicon-Manganese Steel Special Bearing Steel Aluminum Cast Iron Bronze Plastic AVC Nylon Delrin
Standards	Able to meet AGMA quality level 12 for all gears, ANSI/AGMA 2001, AGMA 911-A94: Aerospace Gearing, AGMA 913-A98 Specifying the Geometry of Spur Gears, AGMA 926-C99: Carburized Aerospace Gearing, Medical Device Gears, Custom Aerospace Gears, Custom Robotics Gears, Custom Gear Supplier.	

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