

ULTIMATE[®] CNC GEARSET

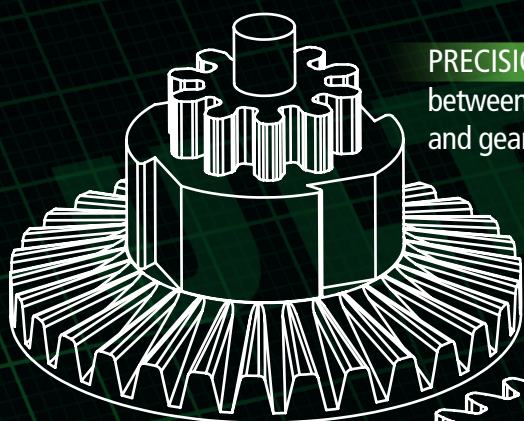
The ULTIMATE CNC gearset program is designed for the professional airsoft technician seeking high quality precision components for those exacting custom builds.

Our ULTIMATE CNC gearset offers the largest amount of Gear Ratios and the precision CNC engineering ensures the highest possible levels of durability and wear resistance.

The CNC gearset is crafted from high quality steel and vacuum hardened before a protective black oxidization process is applied.

In addition, the ULTIMATE Gearset Bevel Gear in each set has been expertly crafted to mesh perfectly with the Pinion Gear on our ULTIMATE motors. This perfect fit reduces stress on the gears points of contact and ensures flawless operation.

Each element is differentially heat treated to the perfect Rockwell grade rated hardness for the gears engagement point with its corresponding parts. Where required, the CNC Gearset has been precision milled to incorporate apertures for counterweights and to remove teeth from the sector gear.



PRECISION gear mesh angle
between motor pinion gear
and gearbox bevel gear

GREATER versatility in
custom gearbox building

LOW STRESS ON BEARINGS/BUSHES

EXTENDED LIFETIME
through reduced wear and tear

REDUCED GEAR NOISE

ULTIMATE CNC GEARSET

Ratio: 12.5:1 Ref. 19566

Ratio: 13.5:1 Ref. 19567

Ratio: 16.5:1 Ref. 19568

Ratio: 18.5:1 Ref. 19569

Ratio: 19.5:1 Ref. 19570

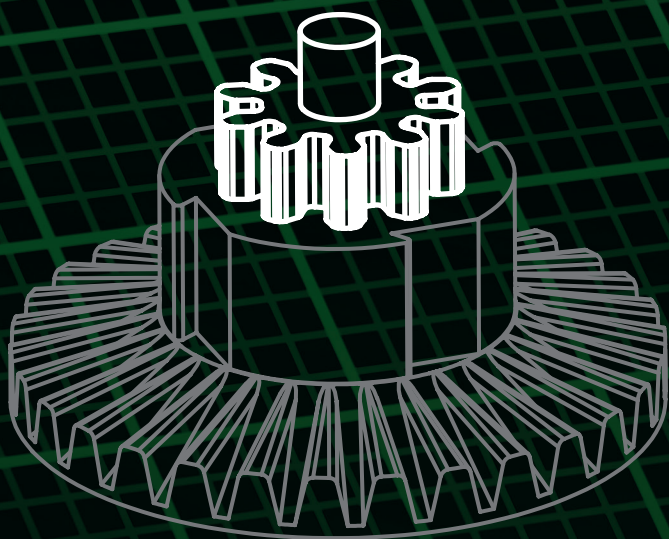
Ratio: 24.5:1 Ref. 19571

Ratio: 26.5:1 Ref. 19572



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CNC GEARSET (BEVEL) - TECHNICAL DATA



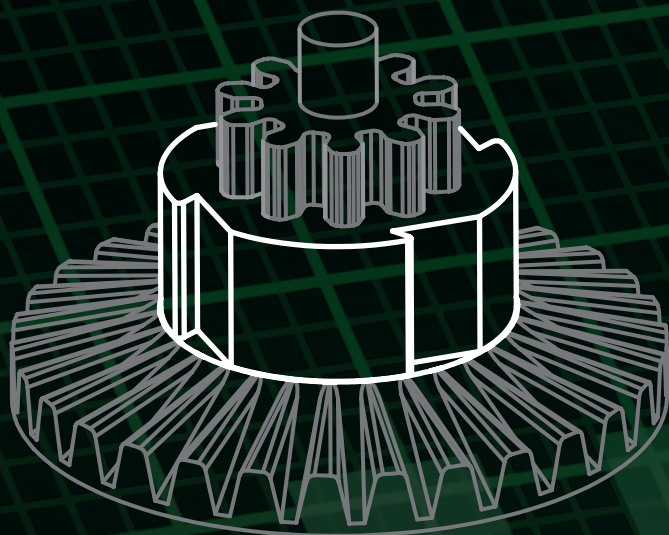
CNC MACHINED SCM415 STEEL

TEETH ROLLING PROCESS

SHAFT EMBOSSING PROCESS

LOW STRESS ON BEARINGS/BUSHES

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment. Hardness : 40-45 Rockwell

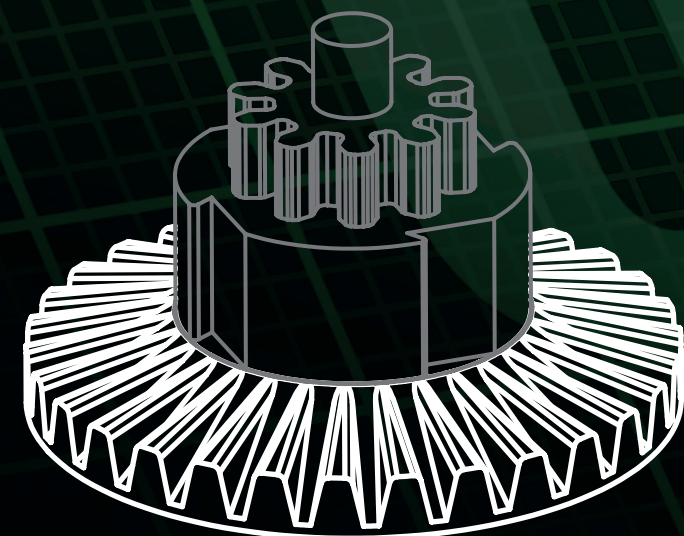


CNC MACHINED CARBON STEEL

SHAFT EMBOSSING PROCESS

FIVE STAGE BRAKE STRUCTURE - MACHINED

Hardening: High frequency heating treatment.
Inner hole: 25-30 Rockwell
Outside: 40-45 Rockwell



CNC MACHINED SCM415 STEEL

TEETH ROLLING PROCESS

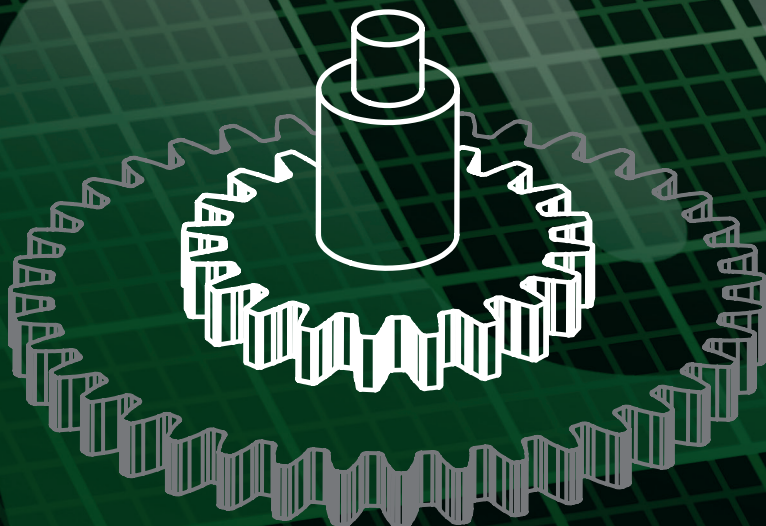
LOW TEMPERATURE TEMPERING

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment. Hardness : 50-55 Rockwell



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CNC GEARSET (SPUR) - TECHNICAL DATA



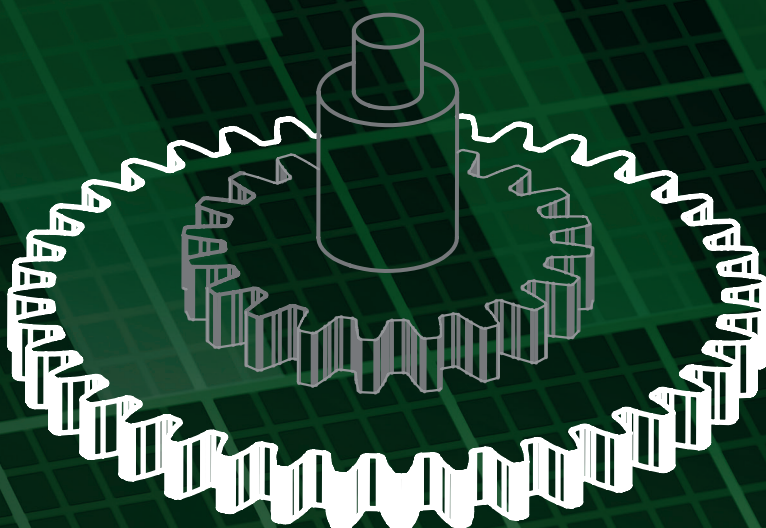
CNC MACHINED SCM415 STEEL

TEETH ROLLING PROCESS

SHAFT EMBOSSING PROCESS

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment.

Hardness: 50-55 Rockwell



CNC MACHINED SCM415 STEEL

TEETH ROLLING PROCESS

Hardening: High frequency heating treatment.

Inner hole: 30-35 Rockwell.

Outside: 45-50 Rockwell



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CNC GEARSET (SECTOR) - TECHNICAL DATA

CNC MACHINED SCM415 STEEL

TEETH ROLLING PROCESS

MILLING PROCESS (REMOVE HALF SIDE TEETH)

LOW STRESS ON BEARINGS/BUSHES

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment. Hardness : 40-45 Rockwell

CNC MACHINED CARBON STEEL

TEETH ROLLING PROCESS

MILLING PROCESS (SCREW HOLES)

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment. Hardness : 40-45 Rockwell

SCREWS CNC MACHINED 303 STAINLESS STEEL

MILLING PROCESS (HEX HEAD)

Hardening: Done under vacuum which assure all machined tolerances are not lost under the hardening treatment. Hardness : >55 Rockwell

