



PRECISION PERFORMANCE
SINCE 2008

LN Engineering Watercooled Mezger Engine Program

**Total Engine Solutions for:
Mezger-Based GT3 Turbo GT2 Models**



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Mission

LN Engineering seeks to provide innovative “no-compromise” solutions to the automotive aftermarket to exceed OEM requirements. We strive to deliver the highest level of precision performance for our products using improved material, manufacturing, and finishing technologies, all backed up by industry leading educational resources and support.



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Facility

We do all our machining and manufacturing in the USA in our 18,000 sq/ft facility, located one hour south of Chicago, IL.

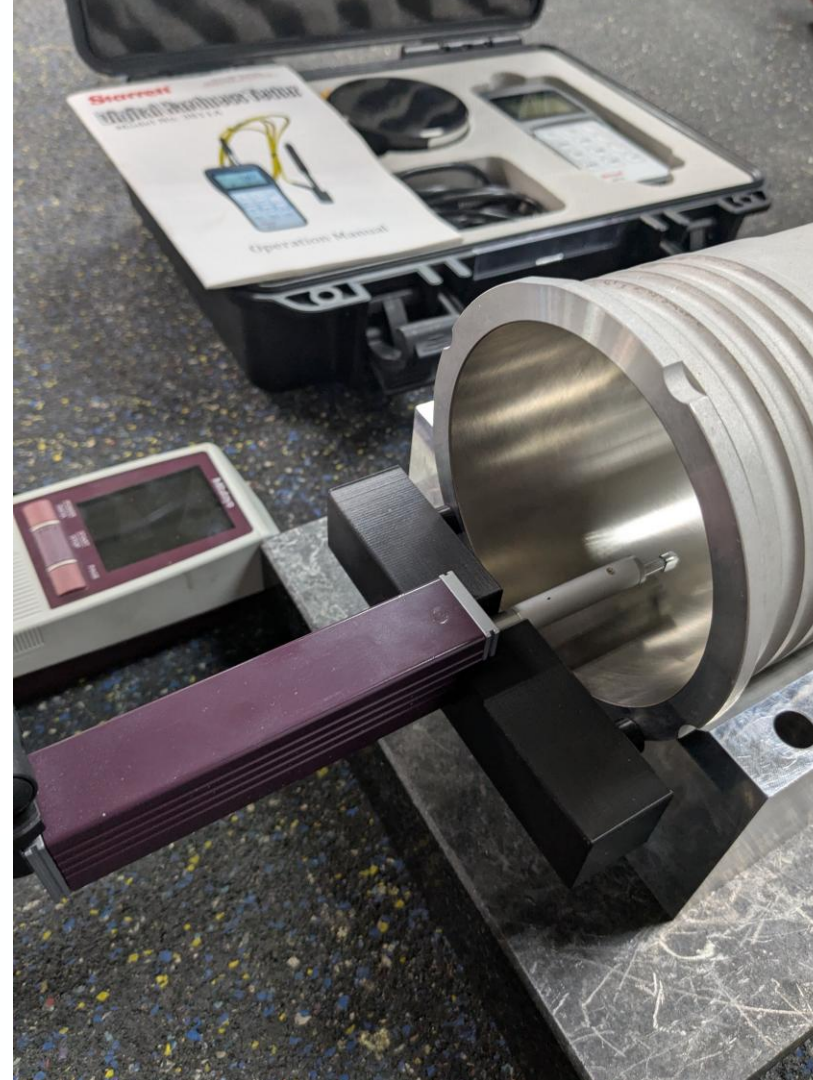




Quality

Every part made by LN Engineering undergoes stringent quality control inspections at multiple points during the manufacturing or reconditioning process to ensure the best possible outcome for our customer.

ISO 9001 Compliant





Our Partners

LN Engineering offers premium performance parts designed to meet or exceed OEM requirements from industry leaders CP Carrillo, Mahle Motorsport, UEM and Wossner.





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Bore Coating and Plating

LN Engineering has extensive experience with Nikasil type plating as well as the latest in bore coating technologies, APS and PTWA, used by Porsche since 2017.





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Nickies Benefits

- **Cast construction limits performance of factory sleeves. Billet AL Nickies provide:**
- **Increased thermal conductivity for better cooling**
- **Increased strength and ductility**
- **Allow for increased boost or displacement = more torque and horsepower**





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Forged Connecting Rods

The stock rods have weak bolts and can bend, causing misfires, or can even break.

If you increasing engine displacement, adding more boost, or plan on tracking your car, upgrading your rods is required.





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Forged Connecting Rods

PR-993>-65000S	CP-Carrillo Connecting Rods Set for Porsche 993 / 996 Turbo 0.768 Pin End Width with 3/8 CARR Bolts
PR-993>-65000H	CP-Carrillo Connecting Rods Set for Porsche 993 / 996 Turbo 0.768 Pin End Width with 3/8 WMC Bolts
996-230-580-1270F	Pauter Connecting Rods Porsche 911 996/997 Turbo with ARP2000 Bolts
GT3-220-560-1278FL	Pauter Lightweight Connecting Rods Porsche 911 996 GT3 with ARP2000 Bolts
GT3-220-560-1300FL	Pauter Lightweight Connecting Rods for Porsche 997 GT3 with ARP2000 Bolts
GT3-230-560-1278FL	Pauter Lightweight Connecting Rods Porsche 997 GT3 RS 4.0 with ARP2000 Bolts
PR_R997T_0HS_5000B6S	CP-Carrillo Connecting Rods Set for Porsche 997 3.6 Turbo 2008 5.000 Long With 3/8 CARR Bolts
PR_R997T_0HS_5000B6H	CP-Carrillo Connecting Rods Set for Porsche 997 3.6 Turbo 2008 5.000 Long With 3/8 WMC Bolts
PR_R7T3_0HT_5118B6S	CP-Carrillo Connecting Rods Set for Porsche 997 Cup 130mm Long 22mm Pins with CARR Bolts
PR_R7T3_0HT_5118B6H	CP-Carrillo Connecting Rods Set for Porsche 997 Cup 130mm Long 22mm Pins with WMC Bolts
PR_R7T23_0HT_5118B6S	CP-Carrillo Connecting Rods Set for Porsche 997 Cup 130mm Long 23mm Pins with CARR Bolts
PR_R7T23_0HT_5118B6H	CP-Carrillo Connecting Rods Set for Porsche 997 Cup 130mm Long 23mm Pins with WMC Bolts



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Mezger Nickies

Replace original cast aluminum Nikasil GT3, Turbo, and GT3 sleeves with our billet NSC-plated sleeves.

Available with JE or Mahle Motorsport Pistons in slip-fit and machine-in sizes.





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Mahle Motorsport

LN Engineering offers custom Mahle Motorsport pistons for 3.6 liter Porsche 996/997 GT3, Turbo, and GT2 models, featuring offset pins. MMS pistons benefit from decades of experience as an OE supplier to Porsche.





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CP Pistons

Replacement CP Pistons are offered for use with factory Nikasil sleeves as well as LN Engineering Nickies cylinders, featuring high strength 2618 forgings, coated skirts, and Nikasil compatible piston rings.





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Mezger Nickies

Machine-in thickwall aluminum water-cooled Nickies Mezger sleeves allow for increased displacement and improved cooling over steel sleeves.

We can machine your original housing to fit our Nickies sleeves.





Mezger Nickies

108-100.1	OE Replacement Nickies inc. 100mm 996/997TT 9.4:1 CP Piston set, inc. rings, pins, & clips
108-100.1.MM	OE Replacement Nickies inc. 100mm 996/997TT 9.4:1 Mahle Motorsport set, inc. rings, pins, & clips
108-100.3	OE Replacement Nickies inc. 100mm 996.2/997 GT3 12:1 CP Piston set, inc. rings, pins, & clips
108-100.3.MM	OE Replacement Nickies inc. 100mm 12.5:1 996.2/997 GT3 Mahle Motorsport Piston set, inc. rings, pins, & clips
108-100.4	OE Replacement Nickies inc. 100mm 996.1 GT3 11.7:1 CP Piston set, inc. rings, pins, & clips [special order]
108-100	100.00mm 996/997TT, GT3 Stock Replacement Nickies (Aluminum)
108-102.1	Machine-in Nickies inc. 102mm 996/997TT 9.4:1 CP Piston set, inc. rings, pins, & clips
108-102	102mm 996/997TT GT3 Stock Replacement Nickies (Aluminum; Machine-In, uses 105.4 sleeve registers)
108-102.7.1	Machine-In Nickies inc. 102.7mm 996.2/997 GT3 12.5:1 CP Piston set, inc. rings, pins, & clips
108-102.7.2	Machine-In Nickies inc. 102.7mm 996.2/997 GT3 13:1 CP Piston set, inc. rings, pins, & clips
108-102.7.3	Machine-In Nickies inc. 102.7mm 996.2/997 GT3 13.5:1 CP Piston set, inc. rings, pins, & clips
108-102.7	102.70mm 996/997 GT3 Stock Replacement Nickies (Aluminum; Machine-In, uses 105.4 sleeve registers)



Tapered Sleeve Ring Compressors

Modern piston rings require a modern approach to piston installation.

Tapered sleeve ring compressors reduce the chances of bending or breaking a piston ring during installation.

Available in all bore sizes.

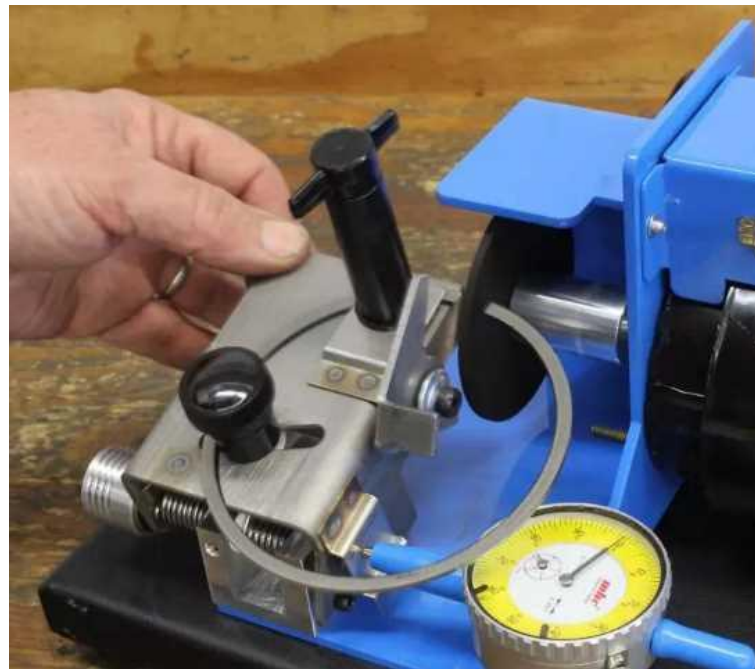




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Ring Gapping Service

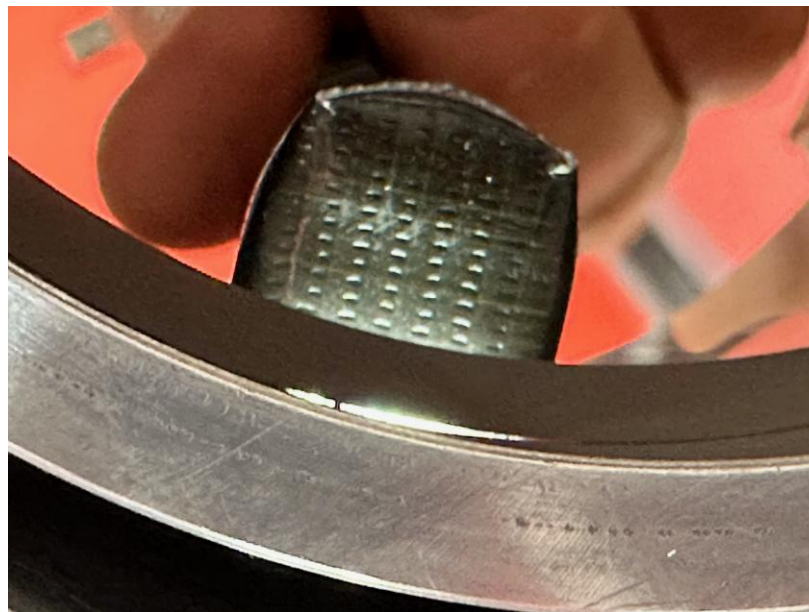
Our piston ring end gapping service provides you with piston rings with pre-set end gaps.





Light Checking

Piston rings should be round. If they are not round, they won't function properly. When gapping rings, we can also light check them for you.





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Piston and Rod Balancing Service

Our static balancing service provides piston assemblies and connecting rods balanced within +/- 0.5 grams.





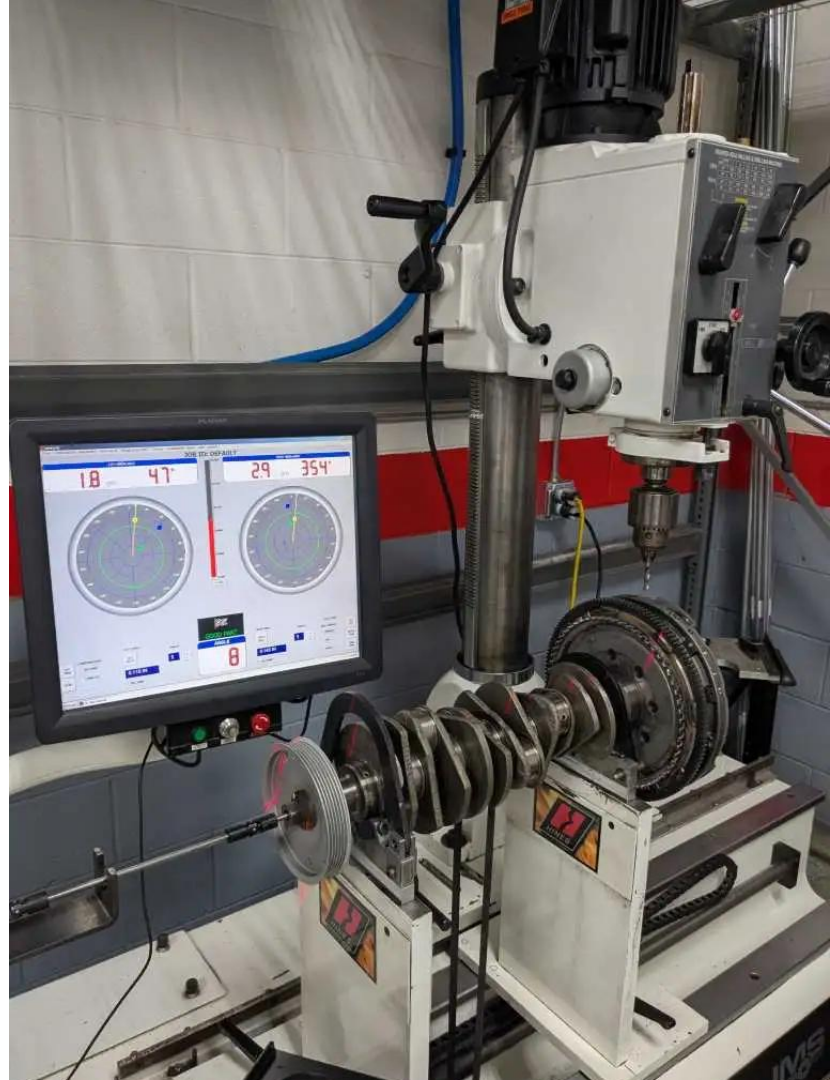
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Dynamic Balancing

**We now offer
Dynamic Engine
Balancing.**

**Standard balance
specification is 0.5
oz/in.**

**Race balance is to
0.2 oz/in.**



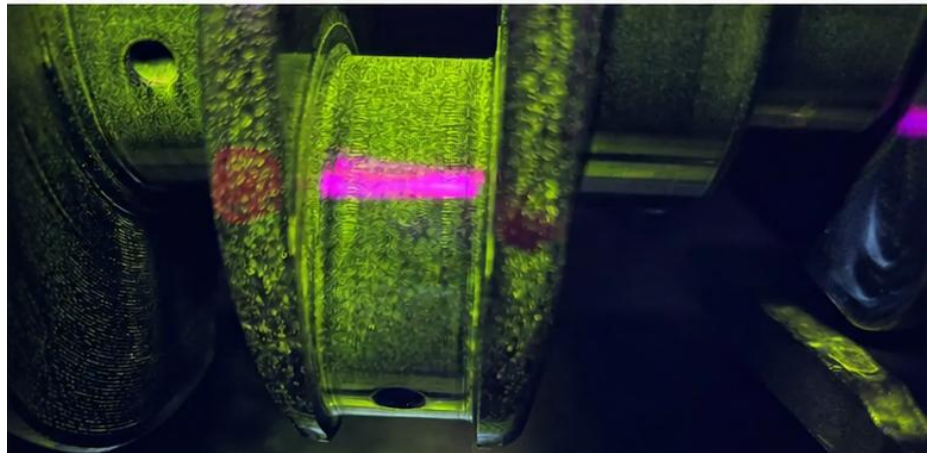


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Crankshaft

Magnetic particle inspection ensures crankshafts are not cracked.

Surface finish influences oil film stability, load capacity, and bearing longevity. LN Engineering polishes journals to achieve a consistent, controlled finish that supports long-term reliability.





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Cryogenic Treatment

The advanced process of Deep Cryogenic Processing involves bringing the temperature of materials down to temperatures below -300°F slowly.

Optional Cryogenic Processing alters the crystalline structure, transforming it into a more uniform and durable construct.

These changes become permanent as the temperature of the material is gradually brought back up to room temperature or beyond.





WPC Treatment

WPC is an anti-friction micro shot-peening treatment to the surface of the (any) part.

The peaks and valleys scoop up oil and increase the surface hardness of the material.

Due to the fact there is virtually no dimension change, we can add the treatment to already finished parts.

Engine main and rod bearings can be special ordered with WPC.





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Cylinder Head Reconditioning

100% of components are tested, reconditioned, or replaced and feature multi-angle Serdi valve job, Viton valve stem seals, and critical surfaces are diamond milled, exceeding original manufacturer specifications.

All components are inspected and replaced if worn.





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Additional Services

LN Engineering's automotive machine shop offers services like cylinder reconditioning, honing, aluminum engine block repair and sleeving, connecting rod reconditioning, crankshaft polishing, engine balancing, cylinder head remanufacturing, surface grinding and more.



Scan QR code for the most up to date [list of machine shop services offered](#)





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Engine Rebuilds

LN Engineering is the exclusive distributor for Flat 6 Innovations Rebuilt Porsche engines.

Now accepting customer supplied engines for rebuild from anywhere in the world.



6 FLAT SIX
INNOVATIONS

Often imitated. **Never duplicated.**

Flat 6 Innovations Engines feature LN Engineering Nickies and IMS Solution.

NICKIES **IMS SOLUTION**

FLAT6INNOVATIONS.COM

The advertisement features three Porsche flat-six engines. The central engine is painted bright red, while the two flanking engines are silver. The background is black. At the top, the '6 FLAT SIX INNOVATIONS' logo is displayed in white and red. Below the logo is the slogan 'Often imitated. Never duplicated.' in white and red. At the bottom, the text 'Flat 6 Innovations Engines feature LN Engineering Nickies and IMS Solution.' is written in white. Below this text are the logos for 'NICKIES' (a stylized gear) and 'IMS SOLUTION' (two interlocking gears), both in red and white. At the very bottom, the website 'FLAT6INNOVATIONS.COM' is written in white.



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Shipping

Easy and secure shipping with trusted UPS and other freight partners minimizes time in transit which means less time waiting for your shipment with discounted rates that save you money.





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LN ENGINEERING
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Technical Resources for Porsche Owners

Guides, videos, downloads, AI-powered tools, and **enhanced 24/7 support.**

[Learn More >](#)



lnengineering.com/knowledge/



AI-Powered Tools



ENHANCED 24/7 SUPPORT
Porsche experts, always here.



SOLUTIONS ▾

KNOWLEDGE

SUPPORT 24/7



Knowledge

Technical Resources for Porsche Owners

LN Engineering provides educational resources, training, and guidelines to help you get the most from your aircooled Porsche. Our resources are built by engineers, for enthusiasts—plus, enjoy **enhanced 24/7 support.**



[What is the best oil for my Porsche?](#)



[Porsche Engine Technical Videos](#)



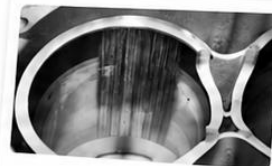
[Technical Downloads for Porsche Owners](#)



[The Definitive Guide to the Porsche IMS Bearing](#)



[The Ultimate Guide to Nikasil and NSC Cylinder Platings](#)



[The Porsche Cylinder Bore Scoring Problem](#)



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SINCE 2002

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