



PRECISION PERFORMANCE
SINCE 2008

LN Engineering Nickies

**Aircooled Precision Performance for
1965-1998 Porsche 911 Engines**



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 our manufacturing in the USA at our 17,000 sq/ft facility, located one hour south of Chicago in Momence, IL.





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Process

Nickies billet cylinders are proudly machined on U.S.-made HAAS CNC equipment using custom AL extrusions from Hydro in Cressona, PA.

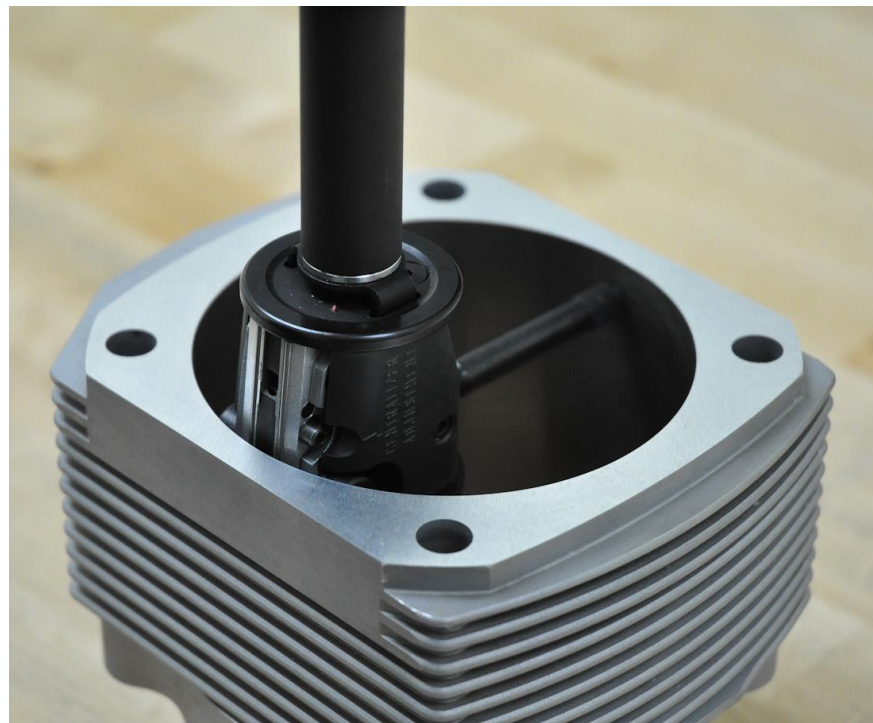




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Quality

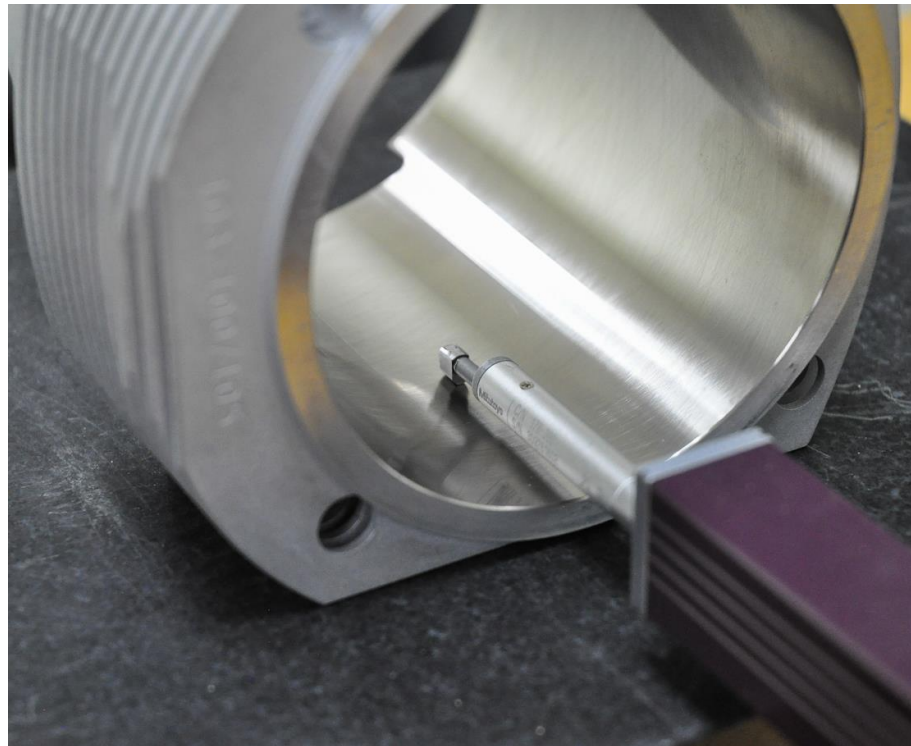
Every part made by LN Engineering undergoes stringent quality control inspections at multiple points during the manufacturing or reconditioning process to ensure the best possible outcome for our customer.





Quality

Cylinders are precision honed to our exacting specifications and are measured using Sunnen bore gauges and Mitutoyo profilometers to ensure proper cylinder geometry and surface finish.





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Our Partners

LN Engineering offers premium performance parts designed to meet or exceed OEM requirements from industry leaders JE Pistons, CP Carrillo, Mahle Motorsport, and Total Seal.



NICKIESTM
PERFORMANCE AIR-COOLED CYLINDERS

WITH MATCHING PISTON SETS BY





Our Partners



CYLINDER & PISTON SETS

Mahle Motorsport piston and cylinders kits allow for tighter clearances, reduced wear on both the piston and bore, and quieter operation, providing true OEM compatibility with no compromises.





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Shipping

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





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Why LN Engineering?

- **LN Engineering has been manufacturing Nickies cylinders in the USA since 2002 with tens of thousands sold.**
- **LN Engineering is one of the most trusted names in the Porsche aftermarket and the leading authority on cylinders and pistons for Porsche engines in the USA.**



History

- **2.0, 2.2, and 2.4 models came with cast iron and biral cylinders that limit cooling and performance.**
- **Porsche used aluminum cylinders to make engines run cooler with Ferral, Chromal, and eventually Nikasil coatings to provide optimal cooling and durability.**
- **Cast aluminum construction limits performance of factory cylinders.**
- **Billet construction allows Nickies in bore sizes larger than previously available for 911 models since 2004.**



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New in 2022

Most Nickies cylinders now include standard knock sensor bosses and also increased fin surface area to provide even better cooling than before.

Cylinder head sealing ring grooves can now be added to stock replacement cylinders.





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Nickies Benefits

- **Billet aluminum Nickies are better than cast aluminum cylinders:**
- **Increased thermal conductivity for better cooling**
- **Stronger and more ductile**
- **Increased displacement = more torque and horsepower**





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Pistons

Our modern forged 2618 pistons features lightweight design with performance features including friction reducing skirt coatings, modern rings, and tool steel wrist pins.

**Custom pistons
available upon request.**



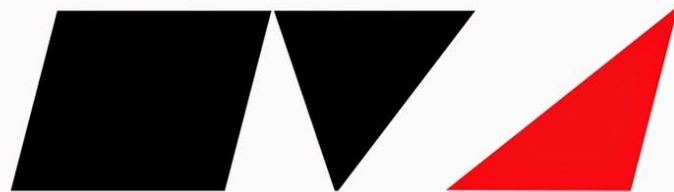


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NSC-Plating

LN Engineering has utilized Millennium Technologies proven NSC-plating since 2002.

Similar to Nikasil, the NSC cylinder bore plating is made up of nickel, silicon, and carbide applied .004-.005" thick.



**MILLENNIUM
TECHNOLOGIES**

Advanced Engine Solutions



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Displacement Increases

- **Replace cast iron 80mm 2.0 911 cylinders with 81mm aluminum cylinders using original heads and case with no modifications.**
- **2.0 engine with later heads can be fitted with 2.2 cylinders up to 87.5mm or 2.7 cylinders up to 93.5mm.**





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Displacement Increases

- **2.2 and 2.4 911 engines can be upgraded to aluminum cylinders from cast iron or biral-type in bore sizes up to 87.5mm.**
- **If the case is machined for 2.7 registers, cylinders up to 93.5mm can be fitted.**





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Displacement Increases

- **Slip-fit and machine-in options available for 3.0, 3.2, and 3.3 models.**
- **Normally aspirated engines can be upgraded from 95mm to 102.7mm; Turbo models to 100mm.**
- **Flame-rings available for 95-98mm Nickies.**





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Displacement Increases

- **Slip-fit and machine-in options available for 3.6 964 and 993 models.**
- **Slip-fit up to 103mm and machine-in up to 106mm allow for displacements over 4.0 liters with original crankshaft and rods.**
- **Flame-rings available for 100-102mm Nickies**





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Porsche 911 & 914-6 2.0 Liter

103-80	Porsche 911 914-6 2.0 80mm Nickies (std 2.0 head registers) [special order]
103-81	Porsche 911 914-6 2.0 81mm Nickies (std 2.0 head registers) [special order]
103-80/2.2	Porsche 911 914-6 2.0 80mm Nickies (2.2/2.4 head registers); previously 103-80U [special order]
103-81/2.2	Porsche 911 914-6 2.0 81mm Nickies (2.2/2.4 head registers); previously 103-81U [special order]
103-80.1	Porsche 911 914-6 2.0 80mm Nickies inc. 9.5:1 JE Piston set [special order]
103-80.2	Porsche 911 914-6 2.0 80mm Nickies inc. 10:1 JE Piston set [special order]
103-81.1	Porsche 911 914-6 2.0 81mm Nickies inc. 9.5:1 JE Piston set [special order]
103-81.2	Porsche 911 914-6 2.0 81mm Nickies inc. 10.5:1 JE Piston set [special order]





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Porsche 911 2.2 Liter

103-84	Porsche 911 2.2/2.4 84mm Nickies
103-85	Porsche 911 2.2/2.4L 85mm Nickies
103-86	Porsche 911 2.2/2.4L 86mm Nickies [special order]
103-86.7	Porsche 911 2.2/2.4L 86.7mm Nickies [special order]
103-87.5	Porsche 911 2.2/2.4L 87.5mm Nickies
103-84.1	Porsche 911 2.2 84mm Nickies inc. 9.5:1 JE Piston set
103-84.2	Porsche 911 2.2 84mm Nickies inc. 10.5:1 JE Piston set
103-85.1	Porsche 911 2.2 85mm Nickies inc. 9.5:1 JE Piston set
103-85.2	Porsche 911 2.2 85mm Nickies inc. 10.5:1 JE Piston set
103-87.5.1	Porsche 911 2.2 87.5mm Nickies including 9.5:1 JE Piston set
103-87.5.2	Porsche 911 2.2 87.5mm Nickies inc. 10.5:1 JE Piston set





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Porsche 911 2.4 Liter

103-84	Porsche 911 2.2/2.4 84mm Nickies
103-85	Porsche 911 2.2/2.4L 85mm Nickies
103-86	Porsche 911 2.2/2.4L 86mm Nickies [special order]
103-86.7	Porsche 911 2.2/2.4L 86.7mm Nickies [special order]
103-87.5	Porsche 911 2.2/2.4L 87.5mm Nickies
103-84.3	Porsche 911 2.4 84mm Nickies inc. 9.5:1 JE Piston set
103-84.4	Porsche 911 2.4 84mm Nickies inc. 10.5:1 JE Piston set
103-85.3	Porsche 911 2.4 85mm Nickies inc. 9.5:1 JE Piston set
103-85.4	Porsche 911 2.4 85mm Nickies inc. 10.5:1 JE Piston set
103-87.5.3	Porsche 911 2.4 87.5mm Nickies inc. 9.5:1 JE Piston set
103-87.5.4	Porsche 911 2.4 87.5mm Nickies inc. 10.5:1 JE Piston set





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Porsche 911 2.7 Liter

103-89	Porsche 911 2.7 89mm Nickies
103-90	Porsche 911 2.7 90mm Nickies
103-92	Porsche 911 2.7 92mm Nickies
103-93	Porsche 911 2.7 93mm Nickies
103-93.5	Porsche 911 2.7 93.5mm Nickies
103-89.2	Porsche 911 2.5SS 89mm Nickies inc. 10.5:1 JE Piston set
103-90.1	Porsche 911 2.7 90mm Nickies inc. 9.5:1 JE Piston set
103-90.2	Porsche 911 2.7 90mm Nickies inc. 10.5:1 JE Piston set
103-92.1	Porsche 911 2.7 92mm Nickies inc. 9.5:1 JE Piston set
103-92.2	Porsche 911 2.7 92mm Nickies inc. 10.5:1 JE Piston set
103-93.1	Porsche 911 2.7 93mm Nickies inc. 9.5:1 JE Piston set
103-93.2	Porsche 911 2.7 93mm Nickies inc. 10.5:1 JE Piston set





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Porsche 911 3.0 Liter

103-95	Porsche 911 930 3.0/3.2 95mm Nickies
103-98	Porsche 911 930 3.2/3.4 98mm Nickies
103-100/103	Porsche 911 930 3.3/3.5 slip-fit 100mm Nickies
103-100/105	Porsche 911 930 3.3/3.5 100mm Nickies machine-in 105mm case register
103-95.1	Porsche 911 3.0 95mm Nickies inc. 9.5:1 JE Piston set
103-95.2	Porsche 911 3.0 95mm Nickies inc. 10.5:1 JE Piston set
103-95.3	Porsche 911 3.0 95mm Nickies inc. 11.0:1 JE Piston set
103-98.1	Porsche 911 3.0 98mm Nickies inc. 9.5:1 JE Piston set
103-98.2	Porsche 911 3.0 98mm Nickies inc. 10.5:1 JE Piston set
103-98.11	Porsche 911 3.0 98mm Nickies inc. 11.5:1 JE Piston set
103-100.1	Porsche 911 3.0 100mm Nickies inc. 9.5:1 JE Piston set [must specify slip-fit or machine-in]
103-100.2	Porsche 911 3.0 100mm Nickies inc. 10.5:1 JE Piston set
103-100.10	Porsche 911 3.0 100mm Nickies inc. 11.5:1 JE Piston set





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Porsche 911 3.0 Liter

103-102/107	Porsche 911 930 3.5/3.7 102mm Nickies machine-in 107mm case register [special order]
103-102/106.5	Porsche 911 930 3.5/3.7 102mm Nickies machine-in 106.50mm case register
103-102.7/106.5	Porsche 911 930 3.5/3.7 102.7mm Nickies machine-in 106.50mm case register [special order]
103-102.1	Porsche 911 3.0 102mm Nickies inc. 10.5:1 JE Piston set
103-102.2	Porsche 911 3.0 102mm Nickies inc. 11.5:1 JE Piston set
103-102.7.1	Porsche 911 3.0 102.7mm Nickies inc. 10.5:1 JE Piston set [special order]
103-102.7.2	Porsche 911 3.0 102.7mm Nickies inc. 11.5:1 JE Piston set [special order]





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Porsche 911 3.2 Liter

103-95	Porsche 911 930 3.0/3.2 95mm Nickies
103-98	Porsche 911 930 3.2/3.4 98mm Nickies
103-100/103	Porsche 911 930 3.3/3.5 slip-fit 100mm Nickies
103-100/105	Porsche 911 930 3.3/3.5 100mm Nickies machine-in 105mm case register
103-95.4	Porsche 911 3.2 95mm Nickies inc. 9.5:1 JE Piston set
103-95.5	Porsche 911 3.2 95mm Nickies inc. 10.5:1 JE Piston set
103-95.6	Porsche 911 3.2 95mm Nickies inc. 11.5:1 JE Piston set
103-98.3	Porsche 911 3.2 98mm Nickies inc. 9.5:1 JE Piston set
103-98.4	Porsche 911 3.2 98mm Nickies inc. 10.5:1 JE Piston set
103-98.7	Porsche 911 3.2 98mm Nickies inc. 11.5:1 JE Piston set
103-100.3	Porsche 911 3.2 100mm Nickies inc. 9.5:1 JE Piston set [must specify slip-fit or machine-in]
103-100.4	Porsche 911 3.2 100mm Nickies inc. 10.5:1 JE Piston set
103-100.5	Porsche 911 3.2 100mm Nickies inc. 11.5:1 JE Piston set





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Porsche 911 3.2 Liter

103-102/107	Porsche 911 930 3.5/3.7 102mm Nickies machine-in 107mm case register [special order]
103-102/106.5	Porsche 911 930 3.5/3.7 102mm Nickies machine-in 106.50mm case register
103-102.7/106.5	Porsche 911 930 3.5/3.7 102.7mm Nickies machine-in 106.50mm case register [special order]
103-102.3	Porsche 911 3.2 102mm Nickies inc. 10.5:1 JE Piston set
103-102.4	Porsche 911 3.2 102mm Nickies inc. 11.5:1 JE Piston set
103-102.7.3	Porsche 911 3.2 102.7mm Nickies inc. 10.5:1 JE Piston set [special order]
103-102.7.4	Porsche 911 3.2 102.7mm Nickies inc. 11.5:1 JE Piston set [special order]





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Porsche 911 3.0 Liter Turbo

103-95	Porsche 911 930 3.0/3.2 95mm Nickies
103-98	Porsche 911 930 3.2/3.4 98mm Nickies
103-100/105	Porsche 911 930 3.3/3.5 100mm Nickies machine-in 105mm case register
103-95.7	Porsche 911 3.0 Turbo 95mm Nickies inc. 6.5:1 JE Piston set
103-95.8	Porsche 911 3.0 Turbo 95mm Nickies inc. 7.0:1 JE Piston set
103-98.9	Porsche 911 3.0 Turbo 98mm Nickies inc. 7.0:1 JE Piston set
103-98.10	Porsche 911 3.0 Turbo 98mm Nickies inc. 7.5:1 JE Piston set
103-100.8	Porsche 911 3.0 Turbo 100mm Nickies inc. 7.0:1 JE Piston set
103-100.9	Porsche 911 3.0 Turbo 100mm Nickies inc. 7.5:1 JE Piston set





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Porsche 911 3.3 Liter Turbo

103-97	Porsche 911 930 3.3 97mm Nickies [special order]
103-98	Porsche 911 930 3.2/3.4 98mm Nickies
103-100/105	Porsche 911 930 3.3/3.5 100mm Nickies machine-in 105mm case register
103-97.1	Porsche 911 3.3 97mm Nickies inc. 7.0:1 JE Piston set [special order]
103-97.2	Porsche 911 3.3 97mm Nickies inc. 7.5:1 JE Piston set [special order]
103-97.3	Porsche 911 3.3 97mm Nickies inc. 8.0:1 JE Piston set [special order]
103-97.4	Porsche 911 3.3 97mm Nickies inc. 8.5:1 JE Piston set [special order]
103-98.5	Porsche 911 3.3 98mm Nickies inc. 7.5:1 JE Piston set
103-98.6	Porsche 911 3.3 98mm Nickies inc. 8.0:1 JE Piston set
103-98.8	Porsche 911 3.3 98mm Nickies inc. 8.5:1 JE Piston set
103-100.6	Porsche 911 3.3 100mm Nickies inc. 7.5:1 JE Piston set
103-100.7	Porsche 911 3.3 100mm Nickies inc. 8.0:1 JE Piston set





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Porsche 911 3.6 Liter

104-100	Porsche 911 3.6 100mm Nickies
104-102/107	Porsche 911 3.6 102mm Nickies slip-fit 107mm case register
104-102/109	Porsche 911 3.6 102mm Nickies machine-in 109mm case register
105-102/109	Porsche 911 3.6 102mm Nickies machine-in 109mm case register; 114.50mm tall (for 993 Turbo)
104-100.1	Porsche 911 3.6 100mm Nickies inc. 11.5:1 JE Piston set
104-100.2	Porsche 911 3.6 100mm Nickies inc. 12.5:1 JE Piston set
104-102.1	Porsche 911 3.6 102mm Nickies inc. 11.5:1 JE Piston set
104-102.2	Porsche 911 3.6 102mm Nickies inc. 12.5:1 JE Piston set
104-102.7.1	Porsche 911 3.6 102.7mm Nickies inc. 11.5:1 JE Piston set
104-102.7.2	Porsche 911 3.6 102.7mm Nickies inc. 12.5:1 JE Piston set





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Porsche 911 3.6 Liter

104-103/107	Porsche 911 3.6 103mm (4.060") Nickies slip-fit 107mm case register
104-104	Porsche 911 3.6 104mm Nickies machine-in 109mm case register
104-105	Porsche 911 3.6 105mm (4.135") Nickies machine-in 109mm case register
104-106	Porsche 911 3.6 106mm (4.175") Nickies machine-in 109mm case register [special order]
104-103.1	Porsche 911 3.6 103mm (4.060") Nickies inc. 11.5:1 JE Piston set
104-103.2	Porsche 911 3.6 103mm (4.060") Nickies inc. 12.5:1 JE Piston set
104-104.1	Porsche 911 3.6 104mm Nickies inc. 11.5:1 JE Piston set
104-104.2	Porsche 911 3.6 104mm Nickies inc. 12.5:1 JE Piston set
104-105.1	Porsche 911 3.6 105mm (4.135") Nickies inc. 11.5:1 JE Piston set
104-105.2	Porsche 911 3.6 105mm (4.135") Nickies inc. 12.5:1 JE Piston set
104-106.1	Porsche 911 3.6 106mm (4.175") Nickies inc. 11.5:1 JE Piston set [special order]
104-106.2	Porsche 911 3.6 106mm (4.175") Nickies inc. 12.5:1 JE Piston set [special order]



Options

Replacement and custom cylinders can be special ordered to meet customer requirements.

107-01	Cylinder Reconditioning, per cyl.
107-02	Surface grind cylinder deck, per cyl.
107-13	Replacement Cylinder Fee (<i>for quantities less than a complete set of cylinders</i>)
107-05	Machine cylinder head sealing ring grooves, per set of cylinders.
107-05.NIRESIST95-98MM	Ni-Resist Flame Rings for 911:930 95, 97, or 98mm Cylinders (Requires head and cylinder machining)
107-05.NIRESIST100-102MM	Ni-Resist Flame Rings for 964/993 100 or 102mm Cylinders (Requires head and cylinder machining)
107-07	Custom cylinder fee for new cylinder not based off existing part. One time charge.
107-07.1	Change bore size to non-stocking diameter on existing cylinder design. Price per set.
107-07.2	Custom cylinder based off existing cylinder. One time charge.
107-09	Modify machine-in cylinders to slip-fit, per set of cylinders.

Mahle Motorsport 911 Sets

PS80-001	Porsche 911S 2.0L (1964-1968) PP80-001 10.0:1
PS80-002	Porsche® 911S 2.0L Cup (1964-1968) 80mm 10.3:1
PS84-001	Porsche 911S 2.2 (1969-1971) 8.5:1; 2.4 (1972-1973) 9.0:1
PS86-002	Porsche 911S 2.5L PP86-002 9.3:1
PS98-009	Porsche 930 Turbo 3.3L to 3.4L (1978 - 1989) PP98-012 (formerly PS98-004) 7.7:1
PS98-010	Porsche 911 Carrera 3.2L to 3.4L (1984 - 1989) Motronic inj. PP98-013 (formerly PS98-002) 10.0:1
PS98-014	Porsche 911 3.0L to 3.2L (1978-1983) Carb or Mech. Inj. PP98-014 (formerly PS98-003) 10.2:1
PS98-015	Porsche 911 3.0L to 3.2L (1978-1983) Motronic Inj. PP98-015 (formerly PS98-005) 10.0:1
PS98-016	Porsche 930 Turbo 3.0L to 3.2L (1976-1977) PP98-016 (formerly PS98-007) 7.5:1
PS98-017	Porsche® 911 Carrera 3.2L to 3.4L (1984-1989) 98mm 11:1
PS102-017	Porsche 964 NA 3.6L to 3.8L Slip-Fit 107mm PP102-011 (formerly PS102-002) 12.6:1
PS102-018	Porsche 964 NA 3.6L to 3.8L Machine-in 109mm PP102-011 (formerly PS102-003) 12.6:1
PS102-019	Porsche 993 Turbo Piston 3.6L to 3.8L Machine-in 109mm 114.5mm tall PP102-012 (PS102-004) 8.0:1
PS102-020	Porsche 964/993 Turbo Piston 3.6L to 3.8L Slip-Fit 107mm PP102-013 (formerly PS102-011) 9.2:1
PS102-021	Porsche 964/993 Turbo Piston 3.6L to 3.8L Machine-In 109mm PP102-013 (formerly PS102-012) 9.2:1
PS102-022	Porsche 993 RSR 3.6L to 3.8L Slip-Fit 107mm PP102-014 (formerly PS102-005/015) 11.4:1
PS102-023	Porsche 993 RSR 3.6L to 3.8L Machine-in 109mm PP102-014 (formerly PS102-006/016) 11.4:1



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Mahle Motorsport+Nickies 911 Sets

PS89-002N	Porsche® 911 2.5SS 89mm 10.3:1
PS90-003N	Porsche 911 2.7L 1973-1977 PP90-003N 10.3:1
PS92-004N	Porsche 911 2.7L to 2.8L K-Jet CIS 1973-1977 PP92-004N (formerly PS93-001) 9.8:1
PS93-004N	Porsche 911 2.7L to 2.9L 1973-1977 PP93-004N 10.3:1
PS100-009N	Porsche 911 3.2L to 3.5L 1984-1989 PP100-009N (formerly PS100-001) Machine-In 105mm 10.3:1
PS100-010N	Porsche 911 3.3L to 3.5L 1978-1992 PP100-010N (formerly PS100-005) Machine-In 105mm 7.0:1
PS100-011N	Porsche 911 3.0L to 3.3L 1976-1983 PP100-011N Machine-In 105mm 9.8:1
PS104-001N	Porsche 911 3.6L to 3.9L 964/993 1989-1998 PP104-001N Machine-In 109mm 11.4:1





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Base Shims

Base shims are available to adjust deck height in thicknesses of .25mm, .5mm, .75mm, and 1.0mm.

Custom thicknesses can be special ordered.





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ARP Engine Hardware

New ARP head studs should be fitted when installing Nickies cylinders.

LN Engineering also offers ARP flywheel, case, connecting rod, and transmission bolts for most Porsche models.





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ARP Engine Hardware

100-9942	ARP Billet Stretch Gauge
204-2801	ARP Porsche Late 911 9 pc Flywheel Bolt Kit. 1978-98 Porsche 911 3.0L through 3.8L
204-2802	ARP Porsche Early 911 6 pc Flywheel Bolt Kit. 1970-77 Porsche 911 2.0L through 3.0L
204-4206	ARP Custom Age 625 Porsche 911 head stud kit inc. lube, nuts, and washers. (was 203-00)
204-5405	ARP Porsche 911 3.0, 3.2, & 3.3 Crankcase Bolt Kit
204-5406	ARP Porsche 911 3.6 3.8 964 & 993 Crankcase Bolt Kit
204-5407	ARP Porsche 911 2.0, 2.2, 2.4, & 2.7 Crankcase Bolt Kit
204-6001	ARP Porsche 911/930 M10 Rod Bolt Kit. Fits 2.2L engines on up through 1977.
204-6003	ARP Porsche 2.0 911 Rod Bolt Kit. (Non-stocking special order)
204-6005	ARP Porsche M9 Rod Bolt Kit. Fits 1978 and up 911/930/964/993 models.
504-9501	ARP Porsche 911 & 930 Turbo 3.0,3.2, 3.3 Case Stud Kit. (Non-stocking special order)
504-9502	ARP Porsche 911 & 930 Turbo 3.0,3.2, 3.3 Transmission Mount Stud Kit. (Non-stocking special order)

ARP
automotive Racing products



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Carrillo Connecting Rods

**Pankl Racing Systems
is CP-Carrillo's parent
company (OEM Porsche
supplier).**

**Their rods are fully
machined from a
4330M forging and
feature upgraded bolts.**

**Recommended at 400+
HP or over 7400 rpm.**





Carrillo 4330M* Connecting Rods

400-2.0	Porsche 911 2.0/2.2
400-2.4	Porsche 911 2.4/2.7
400-3.0	Porsche 911 3.0SC
400-3.2	Porsche 911 3.2/3.3/3.6 964
400-993	Porsche 911 3.6 993 996TT
400-CARR	Upgrade to CARR rod bolts [rods with CARR bolts are special order only]



***Titanium connecting rods are available special order.**



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Pauter Connecting Rods

Pauter's unique X-beam design provides an excellent balance of weight savings, strength, and windage reduction.

Rods feature high nickel chrome-moly 4340 steel construction and ARP bolts.





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Pauter Machine

LN Engineering also offers high performance engine upgrades from Pauter including billet intermediate shaft gears and DLC coated rocker arms*.

***Porsche swivel feet adjusters not included.**





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Pauter Machine

P22-220-610-1300FL	Pauter Connecting Rods For Porsche 911 2.0/2.2 (Set of 6)
P27-220-539-1278FL	Pauter Connecting Rods For Porsche 911 2.4/2.7 (Set of 6)
P30-220-560-1278FL	Pauter Connecting Rods For Porsche 911 3.0 (Set of 6)
964-230-580-1270F	Pauter Connecting Rods Porsche 911 3.2 3.3 3.6 (964) (Set of 6; Turbo)
964-230-580-1270FL	Pauter Connecting Rods Porsche 911 3.2 3.3 3.6 (964) (Set of 6; Lightweight)
993-230-580-1270F	Pauter Connecting Rods For Porsche 911 993 996/997TT 3.6 (Set of 6; Turbo)
993-230-580-1270FL	Pauter Connecting Rods For Porsche 911 993 3.6 (Set of 6; Lightweight)
GT3-220-560-1300CL	Custom Lightweight Pauter Aircooled Porsche 911 130mm Connecting Rods for 80.4mm GT3RS 4.0 Crank
65-993145SF-12	Pauter Machine Billet 911 (993) Rocker Set, std ratio, no oil holes, DLC coated (swivel feet adj not inc)
65-901145SF-12	Pauter Machine Billet 911 Rocker Set, std ratio, DLC coated (swivel feet adj not inc)
65-901	Pauter Machine Porsche 911 Intermediate Shaft IMS Gears

***Titanium connecting rods are available
special order.**





PRECISION PERFORMANCE
SINCE 2008

Total Seal Rings

**Gapless rings
reduce oil
consumption in
horizontally
opposed engines.**

**Optional gas ported
or total conform
rings ensure
maximum sealing.**





Total Seal Gapless Ringsets for Original Mahle Pistons

LN-08-320700-10	TS Piston Ringset; 80mm 1.5/2.0/4.0. Fits 2.0 Porsche 911 1965-1969 and Porsche 914 1970-1972.
LN-08-319600-10	TS Piston Ringset; 84mm 1.5/1.5/4.0. Fits 2.2/2.4 Porsche 911 1970-1973.
LN-08-319700-10	TS Piston Ringset; 90mm 1.5/1.5/4.0. Fits 2.7 Porsche 911 1973.
LN-08-319800-10	TS Piston Ringset; 90mm 1.5/1.75/4.0. Fits 2.7 Porsche 911 1974-1977.
LN-08-319900-10	TS Piston Ringset; 95mm 1.5/1.5/4.0. Fits 3.0/3.2 Porsche 911 1980-1989.
LN-08-320900-10	TS Piston Ringset; 95mm 1.5/1.75/3.5. Fits 3.0 Porsche 911 1976-1977.
LN-08-320300-10	TS Piston Ringset; 97mm 1.5/1.5/3.5. Fits 3.3 Turbo Porsche 911 1978-1979, Porsche 930 1986-1992.
LN-08-325100-00	TS Piston Ringset; 100mm 1.5/1.75/3.0. Fits 3.6 Porsche 911 964 1989-1994.
LN-08-326100-00	TS Piston Ringset; 100mm 1.5/1.75/2.0. Fits 3.6 Porsche 911 993 1995-1998.
LN-08-326200-00	TS Piston Ringset; 100mm 1.75/1.75/2.0. Fits 3.6 Turbo Porsche 911 993 1996-1997.
LN-08-325900-00	TS Piston Ringset; 102mm 1.5/1.75/3.0. Fits 3.8 Porsche 911 993 1995-1996.



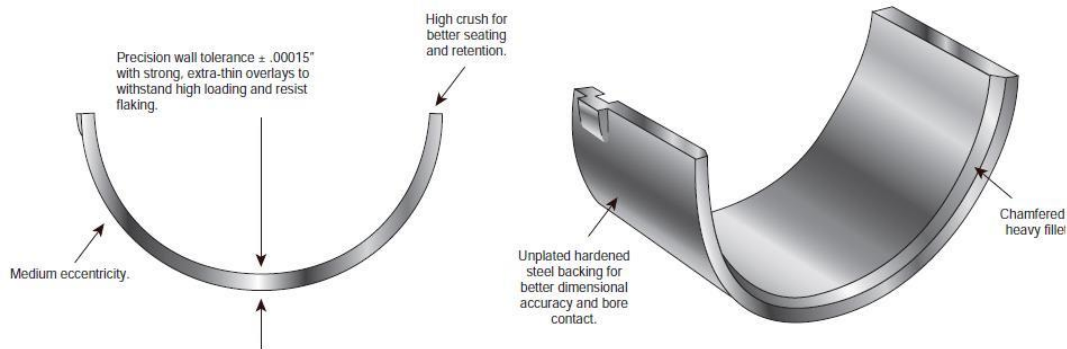


PRECISION PERFORMANCE
SINCE 1908

Performance Rod Bearings

Mahle Clevite 77HX series tri-metal coated performance rod bearings are the industry standard and regarded as the best bearings for performance street and race engines with increased durability over OE.

Clevite H-Series Bearings





Mahle Clevite Tri-Metal Rod Bearings

90110314100	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 2.0/2.2
90110314182	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 2.0/2.2 Undersized (+0.25mm)
91410314100	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 2.4/2.7 and early 3.0
91410314150	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 2.4/2.7 and early 3.0 Undersized (+ 0.25mm)
93010314715	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 3.2 3.6 (964)
93010314781	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 3.2 3.6 (964) Undersized (+ 0.25mm)
93010314882	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 3.0
93010314883	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 3.0 Undersized (+ 0.25mm)
99310314715	Clevite 77HX Tri-Metal Coated Performance Rod Bearing Set for 3.6 993 996 Turbo





Auto Verdi Oil Pumps

**Made in Sweden,
Auto Verdi's billet
GT3 oil pumps are
the ultimate oil
system upgrade for
your Mezger
engine.**

**30, 32, and 34mm
3-stage and 4-
stage pumps
available.**





PRECISION PERFORMANCE
SINCE 2008

Auto Verdi Oil Pumps

AVPGT3A	Auto Verdi Pro Series 3-Stage Billet GT3 Oil Pump (30mm) Porsche Aircooled Mezger Engines
AVPGT3B	Auto Verdi Pro Series 3-Stage Billet GT3 Oil Pump (32, 34mm) For Aircooled & Watercooled Mezger Engines
AVPGT3C	Auto Verdi Pro Series 4-Stage Billet GT3 Oil Pump (30, 32, 34mm) Aircooled & Watercooled Mezger Engines

Auto Verdi
Racing PUMPS & RODS



Rothsport Oil Check Valves

Oil Inlet Check Valves eliminate oil migration from the oil tank to the engine reducing excessive smoking on start up typical of cars that sit for long periods of time.





Rothsport Oil Check Valves

RS-29A	Oil Inlet Check Valve (65-71) 911
RS-30A	Oil Inlet Check Valve (72-89) 911/ 930
RS-30B	Oil Inlet Check Valve (89-94) 964/ 965
RS-29B	Oil Inlet Check Valve (95-98) 993/ 993TT
RS-31	Oil Inlet Check Valve- 4 Cam Carrera/ RSR Oil Filter Consoles
RS-32	Oil Inlet Check Valve- Dash 16
RS-33	Oil Inlet Check Valve- 996/ 997 GT3 (Metzger Motor)

ROTHSPORT
Racing



PRECISION PERFORMANCE
SINCE 2008

Billet Engine Accessories

LN Engineering offers billet valve covers, chain box covers, chain boxes, and other [engine accessories](#) for aircooled Mezger 911 engines.

100% made in the USA in-house at our machine shop. Custom anodizing, etching, and laser engraving available.





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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Free Technical Resources

LN Engineering offers free technical information, available for download by clicking on the Education link located at the top of the LN home page.



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**TECHNICAL
LIBRARY**



**AIRCOOLED ENGINE
WITH NICKIES™ CYLINDERS**
BASIC ASSEMBLY AND BREAK-IN INSTRUCTIONS



PRECISION PERFORMANCE
SINCE 2002

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