



CONTINENTAL

AEROSPACE TECHNOLOGIES

CYLINDERS APPLICATION GUIDE

FOR CONTINENTAL® & LYCOMING®* ENGINES



ANGLE VALVE CYLINDERS
NOW IN STOCK!

CONTINENTAL PRIME™
PREMIUM CYLINDERS
FOR LYCOMING®* ENGINES



NiC3® CYLINDER COATING EXTENDED LIFE REDUCED WEAR

THROUGH-HARDENED STEEL BARREL

All Continental® cylinder barrels start out as high-grade, aircraft quality, through-hardened 4140 forged steel. As an initial break-in measure, the barrels receive a two-step honing process. This results in less friction, more contact area, and enhanced wear characteristics. This process gives the cylinder barrels excellent resistance to wear and tear.

CONTINENTAL PRIME™ CYLINDER TECHNOLOGY

Continental **PRIME™** cylinders for Lycoming®* engines are FAA-approved for use in certified and experimental engines and airframes. We increased the cylinder head thickness in the combustion dome and thread region. Thread and shrink band fitment are optimized to create an enhanced steel barrel to aluminum head juncture for the strongest and most durable assembly. Plus, our **PRIME™** cylinders benefit from the exceptional manufacturing processes and quality control procedures that you have come to expect from Continental®.

NiC3® CYLINDERS BETTER PERFORMANCE

Nickel Silicon Carbide (NiC3®) is a chemical compound coating of nickel and silicon carbide, a strong ceramic. It is much harder than steel, with performance attributes that first made their appearance in the engine cylinders of high performance race cars.

Piston engines that are used infrequently are more prone to internal corrosion since the oil layer left following operation slowly fades away from lack of use. An NiC3® coated cylinder absorbs and retains a layer of oil, keeping the cylinder surface coated for much longer than a standard uncoated surface. This greatly increases the protection against corrosion in engine cylinders.

Continental® now offers NiC3® as an optional coating across its entire range of cylinder products. The increase in performance, wear-resistance, and cylinder life are among the many reasons more owners and operators are choosing NiC3®.



**NiC3® CYLINDER
BARRELS CARRY
A 5-YEAR WARRANTY
AGAINST CORROSION
& PREMATURE WEAR.**

CONTINENTAL® CYLINDERS FOR CONTINENTAL® ENGINES

ENGINE MODEL	CYLINDER CLASS	THROUGH-HARDENED STEEL BARREL	NIC3® ELECTROPLATED BARREL	DESCRIPTION
REMOVABLE PUSH ROD TUBES				
O200A, B, C O300A, B, C, D, E C75 C85 C90 C125 G0300A, B, C, D, E, F	61.0A/61.1D	658188A1		CYL & VALVE ASM
O200A, B O300A, C, D C90	61.0A/61.1D	658188A2		CYL & VALVE ASM, LOADED
O200A, B C90	61.0A/61.1D	658188A2BP		CYL & VALVE ASM, LOADED, BALANCED
O200A, B C90	61.0A/61.1D	EQ7507		KIT (4 CYL), LOADED
O200A, B C90	61.0A/61.1D	EQ7500		KIT (4 CYL) - TOP OVERHAUL, BALANCED
O200D		658187A1		CYL & VALVE ASM
O200D		658187A2		CYL & VALVE ASM, LOADED
O200D		658187A2BP		KIT (4 CYL) - LOADED, BALANCED
O300A, B, C, D, E	61.0A/61.1D	658188A3BP		CYL & VALVE ASM, LOADED, BALANCED
O300A, B, C, D, E	61.0A/61.1D	EQ7506 (W/ Push Rods)		KIT (6 CYL) - LOADED
O300A, B, C, D, E	61.0A/61.1D	EQ7501		KIT (6 CYL) - TOP OVERHAUL, BALANCED
G0300A, B, C, D, E	61.0C/61.1F	658188A4		CYL & VALVE ASM, LOADED
C75 C85 C125	61.0B/61.1E	658188A5		CYL & VALVE ASM, LOADED
C75 C85 C125	61.0B/61.1E	EQ7503		KIT (4 CYL) - TOP OVERHAUL BALANCED
C75 C85 C125	61.0B/61.1E	EQ7505 (W/ Push Rods)		KIT (SINGLE CYL), LOADED
SWAGED PUSH ROD TUBES				
O200A, B, C O300A, B, C, D, E C125	61.0A/61.1D	658319A1		CYL & VALVE ASM
O200A, B, C O300A, B, C, D, E	61.0A/61.1D	658319A2		CYL & VALVE ASM, LOADED
O200A, B, C	61.0A/61.1D	658319A2BP		CYL KIT, BALANCED
C90	61.0A/61.1D	658319A3		CYL & VALVE ASM
C90	61.0A/61.1D	658319A4		CYL & VALVE ASM, LOADED
C90	61.0A/61.1D	658319A4BP		CYL KIT, BALANCED
C75 C85	61.0B/61.0E	658319A5		CYL & VALVE ASM
C75 C85	61.0B/61.0E	658319A6		CYL & VALVE ASM, LOADED
G0300A, B, C, D, E, F	61.0C/61.1F	658319A7		CYL & VALVE ASM
G0300A, B, C, D, E, F	61.0C/61.1F	658319A8		CYL & VALVE ASM, LOADED
O300A, B, C, D, E	61.0C/61.1F	658319A9BP		CYL KIT, BALANCED
E165 E185 E225 O470-4, -11, -13, -15	64.0/64.1	658600A1		CYL & VALVE ASM
E165 E185 E225 O470-4, -11, -13, -15	64.0/64.2	658600A2		CYL & VALVE ASM, LOADED
E165 E185 E225 O470-4, -11, -13, -15	64.0/64.3	658600A2BP		CYL & VALVE ASM, LOADED, BALANCED
E165 E185 E225 O470-4, -11, -13, -15	64.0/64.4	EQ7298		KIT - TOP OVERHAUL, BALANCED
IO240A, B IO360AF, ES IOF240B LTSIO360RB TSI0360MB, RB, SB	66.2A	658601A1		CYL & VALVE ASM
IO240A, B IO360ES IOF240B	66.2A	658601A3		CYL & VALVE ASM, LOADED
IO240A, B IOF240B	66.2A	658601A3BP		CYL & VALVE ASM, LOADED, BALANCED
IO240A, B IOF240B	66.2A	EQ7083		KIT - TOP OVERHAUL, BALANCED
IO346A, B (SERVICE)	75	658593A2		CYL & VALVE ASM, LOADED
IO346A, B (SERVICE)	75	EQ6657		KIT - CYL ASM
IO346A, B (SERVICE)	75	EQ7100 (W/ Lifters)		KIT - TOP OVERHAUL, BALANCED
IO360ES	66.2A	658601A4BP		CYL & VALVE ASM, LOADED, BALANCED
IO360ES	66.2A	EQ7264		KIT - TOP OVERHAUL, BALANCED
IO360AF LTSIO360RB TSI0360MB, RB, SB	N/A	658601A2		CYL & VALVE ASM, LOADED
IO360AF LTSIO360RB TSI0360MB, RB, SB	N/A	658601A2BP		CYL & VALVE ASM, LOADED, BALANCED
IO360AF LTSIO360RB TSI0360MB, RB, SB	N/A	EQ7095		KIT - TOP OVERHAUL, BALANCED
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB LTSIO360 E, EB, KB TSI0360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB	66.0A	658602A1		CYL & VALVE ASM
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB	66.0A	658602A3		CYL & VALVE ASM, LOADED
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB	66.0A	658602A3BP		CYL & VALVE ASM, LOADED, BALANCED
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB	66.0A	EQ7097		KIT - TOP OVERHAUL, BALANCED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B	658601A1		CYL & VALVE ASM
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B	658601A3		CYL & VALVE ASM, LOADED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B	658602A2BP		CYL & VALVE ASM, LOADED, BALANCED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B	EQ7096		KIT - TOP OVERHAUL, BALANCED
O470G1,G9; R,S,K,L	68.0B	658597A1		CYL & VALVE ASM
O470G7,G10, O470G11; M22,M23,M26&M27; IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658597A2		CYL & VALVE ASM
O470G7,G10, O470G11; M22,M23,M26&M27; IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658597A4	658614A4	CYL & VALVE ASM, LOADED
O470G7,G10, O470G11; M22,M23,M26 and M27, IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658597A4BP	658614A4BP	CYL & VALVE ASM, LOADED, BALANCED
O470G7,G10, O470G11; M22,M23,M26&M27; IO470C1, C8, C9, C10, C11, C12 and C14	68.0B	EQ7093	EQ7598	KIT - TOP OVERHAUL, BALANCED
O470 J	64.1	658599A2		CYL & VALVE ASM
O470 J	64.1	658599A3		CYL & VALVE ASM, LOADED
O470 J	64.1	658599A3BP		CYL & VALVE ASM, LOADED, BALANCED
O470 J	64.1	EQ7296		KIT - TOP OVERHAUL, BALANCED
O470U	70.0A	658598A1		CYL & VALVE ASM
O470U	70.0A	658598A3	658612A3	CYL & VALVE ASM, LOADED
O470U	70.0A	658598A3BP	658612A3BP	CYL & VALVE ASM, LOADED, BALANCED
O470U	70.0A	EQ7094	EQ7596	KIT - TOP OVERHAUL, BALANCED

KIT LOADED OR CYLINDER & VALVE ASM LOADED: A cylinder with the valves, piston, piston pin, ring set, rocker arm shaft(s), and single cylinder gasket set installed.

BALANCED: All pistons have equal weight in grams.

CONTINENTAL® CYLINDERS FOR CONTINENTAL® ENGINES (CONT.)

ENGINE MODEL	CYLINDER CLASS	THROUGH-HARDENED STEEL BARREL	NIC3® ELECTROPLATED BARREL	DESCRIPTION
O470R, S, K, L	68.0A	658597A3	658614A3	CYL & VALVE ASM, LOADED
O470R, S, K, L	68.0A	658597A3BP	658614A3BP	CYL & VALVE ASM, LOADED, BALANCED
O470R, S, K, L	68.0A	EQ7020	EQ7597	KIT - TOP OVERHAUL, BALANCED
IO470D, E, F, H, L, M, N, S, U, V, VO TSI0470B, C, D	70.0A	658598A2	658612A2	CYL & VALVE ASM
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	658598A4	658612A4	CYL & VALVE ASM, LOADED
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	658598A4BP	658612A4BP	CYL & VALVE ASM, LOADED, BALANCED
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	EQ7027	EQ7595	KIT - TOP OVERHAUL, BALANCED
IO470J, K	64.1	658599A1		CYL & VALVE ASM
IO470J, K	64.1	658599A4		CYL & VALVE ASM, LOADED
IO470J, K	64.1	658599A4BP		CYL & VALVE ASM, LOADED, BALANCED
IO470J, K	64.1	EQ7092		KIT - TOP OVERHAUL, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A1		CYL & VALVE ASM
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A2	658630A2 (2Q17)	CYL & VALVE ASM, LOADED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A2BP	658630A2BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	EQ7099	EQ7582 (2Q17)	KIT - TOP OVERHAUL, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72		EQ7583 (2Q17)	KIT - TOP OVERHAUL, BALANCED
GTSIO520H7, H8, L, M, N	74	658603A2	658613A2	CYL & VALVE ASM
GTSIO520H7, H8, L1 THRU L8, M1, M2, M3, N1 THRU N12	74	658603A6	658613A6	CYL & VALVE ASM, LOADED
GTSIO520H7, H8, L1 THRU L8, M1, M2, M3, N1 THRU N12	74	658603A6BP	658613A6BP	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520H7, H8, L, M, N	74	EQ7066	EQ7565	KIT - TOP OVERHAUL, BALANCED
GTSIO520K	73	658603A3	658613A3	CYL & VALVE ASM
GTSIO520K1, K5	73	658603A7	658613A7	CYL & VALVE ASM, LOADED
GTSIO520K1, K5	73	658603A7BP	658613A7BP	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520K	73	EQ7066	EQ7566	KIT - TOP OVERHAUL, BALANCED
GTSIO520 L1 THRU L8, M1, M2, M3, N1 THRU N12	74	EQ7066	EQ7569	KIT - TOP OVERHAUL, BALANCED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB IO550A, B, C IOF550B, C	71.4A	658552A1	658611A1	CYL & VALVE ASM
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	658552A4	658611A4	CYL & VALVE ASM, LOADED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	658552A4BP	658611A4BP	CYL & VALVE ASM, LOADED, BALANCED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	EQ9899	EQ7561	KIT - TOP OVERHAUL, BALANCED
LTSIO520AE TSI0520AE LI0520P IO520P IO346A, B (SERVICE)	75	658593A1		CYL & VALVE ASM
LTSIO520AE TSI0520AE	75	658593A3		CYL & VALVE ASM, LOADED
LTSIO520AE TSI0520AE	75	658593A3BP		CYL & VALVE ASM, LOADED, BALANCED
LTSIO520AE TSI0520AE	75	EQ7084		KIT - TOP OVERHAUL, BALANCED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	71.4B	658552A1	658611A1	CYL & VALVE ASM
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	71.4B	658552A2	658611A2	CYL & VALVE ASM, LOADED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	71.4B	658552A2BP	658611A2BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	71.4B	EQ7084	EQ7558	KIT - TOP OVERHAUL, BALANCED
TSIO520BE1, BE2, BE3, BE4	73	658603A1	EQ7564	CYL & VALVE ASM
TSIO520BE1, BE2, BE3, BE4	73	658603A8	658613A8	CYL & VALVE ASM, LOADED
TSIO520BE1, BE2, BE3, BE4	73	658603A8BP	658613A8BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO520BE1, BE2, BE3, BE4	73	EQ7297	EQ7570	KIT - TOP OVERHAUL, BALANCED
IO550A, B, C IOF550B, C	71.4C	658552A3	658611A3	CYL & VALVE ASM, LOADED
IO550A, B, C IOF550B, C	71.4C	658552A3BP	658611A3BP	CYL & VALVE ASM, LOADED, BALANCED
IO550A, B, C IOF550B, C	71.4C	EQ7350	EQ7557	KIT - TOP OVERHAUL, BALANCED
IO550D, E, F, L IOF550D, E, F, L	76	658592A1	658621A1	CYL & VALVE ASM
IO550D, E, F, L IOF550D, E, F, L	76	658592A2	658621A2	CYL & VALVE ASM, LOADED
IO550D, E, F, L IOF550D, E, F, L	76	658592A2BP	658621A2BP	CYL & VALVE ASM, LOADED, BALANCED
IO550D, E, F, L IOF550D, E, F, L	76	EQ7089	EQ7577	KIT - TOP OVERHAUL, BALANCED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	658603A5	658613A5	CYL & VALVE ASM, LOADED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	658603A5BP	658613A5BP	CYL & VALVE ASM, LOADED, BALANCED
IO550G	73.0A	EQ7090	EQ7562	KIT - TOP OVERHAUL, BALANCED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	EQ7090	EQ7568	KIT - TOP OVERHAUL, BALANCED
IO550N, P, R	73.1	658595A2	658624A2	CYL & VALVE ASM, LOADED
IO550N, P, R	73.1	658595A2BP	658624A2BP	CYL & VALVE ASM, LOADED, BALANCED
IO550N, P, R	73.1	EQ7085	EQ7574	KIT - TOP OVERHAUL, BALANCED
IO550N, P, R	73.1		EQ7575 (Crossflow)	CYL KIT - CROSSFLOW
IOF550N, P, R	N/A	658594A2	658623A2 (2Q17)	CYL & VALVE ASM, LOADED
IOF550N, P, R	N/A	658594A2BP	658623A2BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
TSIO550A, B, C, E IO550G TSI0520BE	73.0B	658603A1	658613A4	CYL & VALVE ASM, LOADED
TSIO550A1, A2, B1, B2, C1, C3 THRU C14, E1, E2 THRU E5, E9 THRU E13, E14 THRU E23	73.0B	658603A4BP	658613A4BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO550A, B, C, E	73.0B	EQ7087	EQ7563	KIT - TOP OVERHAUL, BALANCED
TSIOF550D, J, K, P IOF550N, P, R	N/A	658594A1		CYL & VALVE ASM
TSIOF550D, J, K, P	N/A	658594A3	658623A3 (2Q17)	CYL & VALVE ASM, LOADED
TSIOF550D, J, K, P	N/A	658594A3BP	658623A3BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
TSIO550G, K, N IO550N, P, R	N/A	658595A1	658624A1	CYL & VALVE ASM
TSIO550G, K, N	N/A	658595A3	658624A3	CYL & VALVE ASM, LOADED
TSIO550G, K, N	N/A	658595A3BP	658624A3BP	CYL & VALVE ASM, LOADED, BALANCED

CONTINENTAL PRIME™ CYLINDERS FOR LYCOMING® * ENGINES

ENGINE MODEL	CYL CLASS	THROUGH-HARDENED STEEL BARREL	NIC3® ELECTROPLATED BARREL	VALVE
320 SERIES				
O-320(no suffix), A1A, A2A, A2B, A2C, A3A, A3B, A3C, E1A, E1B, E2A, E2C (Narrow Deck)	6	TIST06-OCA	TISN06-OCA	Parallel
O-320-A1B, A2B, A2C, A2D, A3A, A3B, C2B, C2C, C3B, C3C, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2E, E2F, E2G, E2H, E3D, E3H (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
O-320-B1A, B1B, B2A, B2B, B3A, B3B, B3C, D1A, D1B, D2A, D2B, D2C (Narrow Deck)	8	TIST08-OCA	TISN08-OCA	Parallel
O-320-B2B, B2C, B2D, B2E, B3B, B3C, D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
O-320-C1A, C1B, C2A, C2B, C3A, C3B, C3C (Narrow Deck)	8.0A	TIST08-OACA	TISN08-OACA	Parallel
IO-320-A1A, A2A (Narrow Deck)	6	TIST06-OCA	TISN06-OCA	Parallel
IO-320-A1A, A2A, E1A, E1B, E2A, E2B (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
IO-320-B1A, B1B (Narrow Deck)	7	TIST07-OCA	TISN07-OCA	Parallel
IO-320-B1A, B1B, B1C, B1D, B1E, B2A, C1B, D1A, D1AD, D1B, D1C (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
IO-320-C1A, C1B, C1F, F1A (Wide Deck)	5	TIST05-OCA	TISN05-OCA	Parallel
AEIO-320-D1B, D2B (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
AEIO-320-E1A, E1B, E2A, E2B (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
AIO-320-A1A, A1B, A2A, A2B, B1B, C1B (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
LIO-320-B1A (Narrow Deck)	7	TIST07-OCA	TISN07-OCA	Parallel
LIO-320-B1A (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
LIO-320-C1A (Wide Deck)	5	TIST05-OCA	TISN05-OCA	Parallel
360 SERIES				
O-360-A1A, A1AD, A1D, A1F, A1F6, A1F6D, A1G, A1G6, A1G6D, A1H, A1H6, A1J, A1LD, A1P, A2A, A2D, A2F, A2G, A3H, A3A, A3AD, A3D, A4A, A4AD, A4D, A4G, A4J, A4JD, A4K, A4M, A4N, A4P, A5AD, C1A, C1C, C1E, C1F, C1G, C2A, C2B, C2C, C2D, C2E, C4F, C4P, F1A6, G1A6 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
O-360-A1A, A1C, A1D, A2A, A2E, A3A, A3D, A4A, C1A, C1C, C1G, C2A, C2B, C2C, C2D (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-360-A3B6D, C1F (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle
O-360-B1A, B1B, B2A, B2B, D1A, D2A, D2B (Narrow Deck)	10	TIST10-OCA	TISN10-OCA	Parallel
O-360-B1A, B2C, D2A (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
O-360-J2A	43.1	TIST43-1CA	TISN43-1CA	Parallel
IO-360-A1A (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-360-A1A, A1B, A1B6, A1B6D, A1C, A1C6, A1D, A1D6, A1D6D, A2A, A2B, A2C, A3B6, A3B6D, A3D6D, C1A, C1B, C1C, C1C6, C1C6, C1E6, C1E6D, C1G6, D1A, J1A6D, J1AD, K2A (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
IO-360-B1A, B1B, B1C (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-360-B1B, B1BD, B1D, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, E1A, L2A, M1A, M1B (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
IO-360-F1A (Wide Deck)	38.3	TIST38-3CA	TISN38-3CA	Parallel
AIO-360-A1A, A1B, A2A, A2B, B1B (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
AEIO-360-A1A, -A1B, A1B6, A1B6D, A1C, A1D, A1D6, A1E, A1E6, A2A, A2B, A2C, A2E, A3B6D (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
AEIO-360-B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
AEIO-360-B1B, B1D, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
HIO-360-A1A (Narrow Deck)	11.1	TIST11-1CA	TISN11-1CA	Angle
HIO-360-B1A, B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
HIO-360-B1A, B1B, G1A (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
HO-360-A1A, B1A, B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
HO-360-C1A (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Angle
HIO-540-A1A (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Parallel
LO-360-A1G6D, A1H6 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Angle

All part numbers include pistons, rings, and gaskets.

ENGINE MODEL	CYL CLASS	THROUGH-HARDENED STEEL BARREL	NIC3® ELECTROPLATED BARREL	VALVE
LIO-360-C1E, C1E6, C1E6D (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Parallel
LTO-360-A1A6D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
TO-360-A1A6D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
TIO-360-A1A, A1B, A3B6 (Wide Deck)	14.4	TIST14-4CA	TISN14-4CA	Angle
540 SERIES				
O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, D1A5, E1A, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5 (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
O-540-A4D5, E4A5, E4B5, E4B5D, E4C5, G1A5, G1A5D, G2A5, H1A5, H1A5D, H1B5D, H2A5, H2A5D, H1B5, H2B5D (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
O-540-B1A5, B1B5, B1D5, B2A5, B2B5, B2C5, B2C5D, B4A5, B4B5, B4B5D (Narrow Deck)	10	TIST10-OCA	TISN10-OCA	Parallel
O-540-B2B5, B2C5, B2C5D, B4B5, B4B5D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
O-540-F1B5	43.1	TIST43-1CA	TISN43-1CA	Parallel
O-540-J1A5D, J1B5D, J1C5D, J1D5D, J2A5D, J2B5D, J2C5D, J2D5D, J3A5, J3A5D, J3C5D	43	TIST43-OCA	TISN43-OCA	Parallel
O-540-L3C5D	44	TIST44-OCA	TISN44-OCA	Parallel
IO-540-A1A5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, K1A5, K1B5, K1B5D, K1D5, K1F5, K2A5, L1A5 (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-540-AA1A5, AA1B5 (Wide Deck)	14.3A	TIST14-3ACA	TISN14-3ACA	Angle
IO-540-AE1A5, K1A5, K1A5D, K1B5, K1B5D, K1D5, K1F5, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, K2A5, L1A5D, L1B5D, L1C5 (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
IO-540-C1B5, C1C5, C2C, C4B5, C4B5D, C4C5, D4A5, D4B5, N1A5, N1A5D (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-540-C4B5, C4B5D, C4D5, C4D5D, D4A5, D4B5, D4C5, N1A5, N1A5D, T4A5D, T4B5, T4B5D, T4C5D, V4A5, V4A5D (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
IO-540-G1D5, K1B5, K1C5, K1E5, K1E5D, S1A5 (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle
IO-540-J4A5, F1A5 (Narrow Deck)	26	TIST26-OCA	TISN26-OCA	Parallel
IO-540-W1A5, W1A5D, W3A5D, AB1A5	43	TIST43-OCA	TISN43-OCA	Parallel
AEIO-540-D4A5, D4B5, D4C5, D4D5 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
AEIO-540-L1B5, L1B5D (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
AEIO-540-L1B5, L1B5D, L1D5 (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
HIO-540-A1A (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
LTO-540-K1AD (Wide Deck)	38.1	TIST38-1CA	TISN38-1CA	Parallel
TIO/LTIO-540-AE2A, AH1A, U2A (Wide Deck)	14.3A	TIST14-3ACA	TISN14-3ACA	Angle
TIO-540-C1A, C1AD (Wide Deck)	38	TIST38-OCA	TISN38-OCA	Parallel
TIO-540-C1A, E1A, H1A (Narrow Deck)	26.1	TIST26-1CA	TISN26-1CA	Parallel
TIO-540-G1A (Narrow Deck)	26	TIST26-OCA	TISN26-OCA	Parallel
TIO-540-K1AD, AA1AD, AB1BD, AF1A, AG1A, AK1A (Wide Deck)	38.1	TIST38-1CA	TISN38-1CA	Parallel
720 SERIES				
IO-720-A1A, A1B, A1BD, D1B, D1BD (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-720-A1B, A1BD, D1B, D1BD, D1C (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle

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SHANGHAI	86.21.6391.0619
TAIWAN**	86.21.6391.0619

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CAIRNS	61.2.979.10511
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PERTH	61.8.9332.7855
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