

KING *RACING*

HIGH PERFORMANCE BEARINGS

The science of speed



Bull's Eye Tolerance™

Perfect clearance
in every set



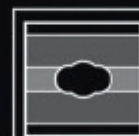
pMaxBlack™

Superior load
capacity



U-Groove™

Greater load
surface



Elliptix™

Improved oil
ingress

2015 Application Guide

www.kingracebearings.com

Continuously pushing the limits

Today's race engines make more power than ever before. Yesterday's engine bearing load capacity no longer works today... and tomorrow's race engines will be even more powerful. There's a need to meet these demands with higher bearing design standards and improved materials.

King Racing's XP series of rod and main bearings was developed to meet these challenges through technologically advanced geometrical features and a unique metal structure. Together, they drive the industry to a new level of durability and performance.



pMAX Black™ Superior load capacity

A unique tri - metal structure developed to meet the ongoing demand for increased engine bearing load capacity.

- 24% stronger overlay
- 17% more fatigue resistance
- SecureBond™ - A micro - etch process that improves multi - layer adhesion and structural integrity
- Compatible with all crankshafts

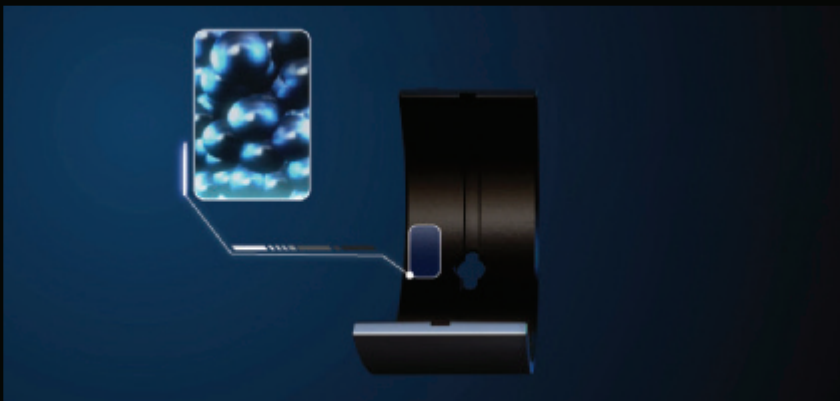
Intermediate layer:

- Copper - based alloy strengthened by 4.5% tin
- Industry's highest hardness level - 115HV
- Load capacity - 17,000 PSI

Overlay:

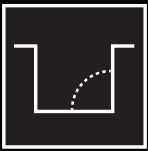
- Strengthened by 5% copper
- Industry's highest hardness level - up to 18.1HV
- Fatigue resistance - 10,200 PSI

Breakthrough hardening technology



King Racing's new hardening technology modifies the overlay molecular structure and creates a fatigue - resisting shield, capable of carrying 24% more load.



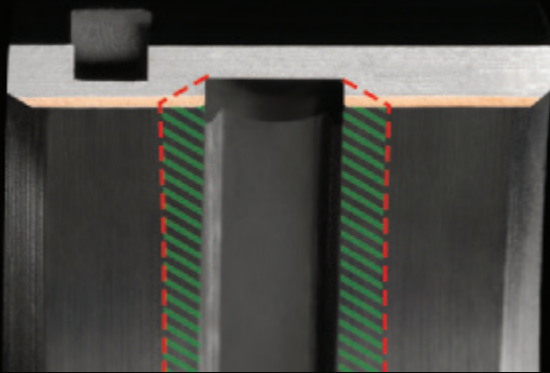


U-Groove™

Greater load surface

A unique oil groove design with a 90° groove shape. **U-Groove™** increases bearing load capacity by expanding the effective surface area, while keeping oil flow capacity intact.

- Better load distribution across the bearing surface
- More stable hydrodynamic lubrication regime
- Greater bearing durability at high RPM's



Bull's Eye Tolerance™

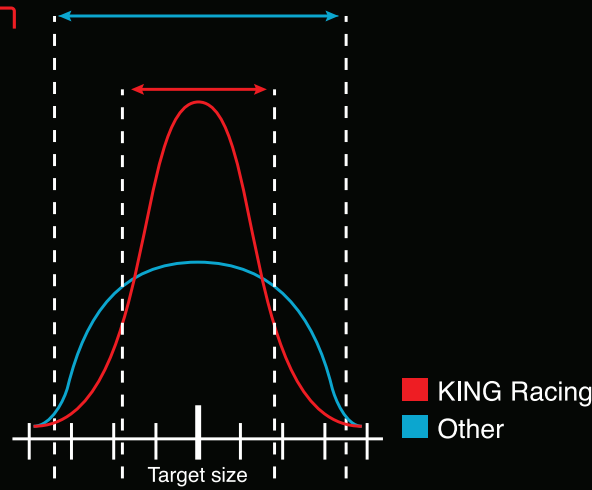
Perfect clearance in every set

Bull's Eye Tolerance™ sets new standards in bearing thickness consistency. It outperforms the industry's wall thickness tolerance, ensuring the least thickness variation.

- No more purchasing multiple sets or “fishing” for bearings to reach the right clearance
- No need to grind cranks “fat” or “thin”
- No need to adjust housing diameter
- Less taper across the bearing face

The most accurate clearance in the industry

Wall Thickness Variation



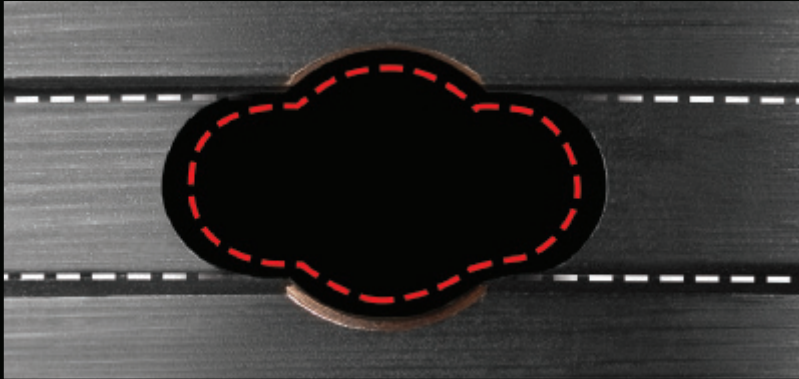


ElliptiX™

Improved oil ingress

ElliptiX™ is a newly designed oil slot / oil hole hybrid. It improves oil ingress without affecting the bearing's surface or compromising the load capacity.

- Increases oil passage capacity
- Higher oil supply reliability
- Eliminates need for custom- made oil hole enlargement



RadiaLock™

Optimal crush height and heat transfer

RadiaLock™ is an optimal crush height value determined by a robust R&D process that customizes each bearing crush height to its specific performance demands.

- Optimal press fit
- Improves bearing spin and fretting prevention
- Better heat transfer
- Reduces bearing and housing distortion



EccentriX™

A superior hydrodynamic regime

EccentriX™ is an optimized eccentricity value reached through elasto hydrodynamic analysis and dynamic calculations. Each bearing's eccentricity value is custom designed to meet specific performance requirements.

- Better oil wedge formation
- More stable hydrodynamic lubrication regime
- Reduces vibration and wear
- Prevents oil film “wiping” under high RPM conditions
- Optimizes load distribution across the bearing surface



Engine	Conrod Bearing Set XP Series	Conrod Bearing Set HP Series	Main Bearing Set XP Series	Main Bearing Set HP Series	Thrustwasher Set	Cam bearings set
ALFA ROMEO						
1.3L DOHC 8v 101, 105/31, 115	CR4595XP		MB 511XP			
1.6L DOHC 8v 105	CR4595XP		MB 511XP			
1.8L DOHC 8v 105.48	CR4595XP		MB 511XP			
2.0L DOHC 8v AR016	CR4595XP		MB 511XP			
2.0L DOHC 8v AR64103, AR67201	CR4595XP		MB 511XP			
AUDI / VOLKSWAGEN						
1.6L SOHC ABB, ABM, ADA, ADP, AEH, APF, DT, JU, PP, RN, SA ('83-'01)	CR4104XP		MB5566XP		TW2010AM	
1.8L SOHC 4B, DR, DS, DZ, JN, JV, JW, NE, NP, PH, PM, PV, RS, RU, SF, SH ('82-'91)	CR4104XP		MB5566XP		TW2010AM	
1.8L SOHC AFY ('95-'01)	CR4104XP		MB5566XP		TW2010AM	
1.8L DOHC 5v ADR ('94-'00)	CR4104XP		MB5566XP		TW2010AM	
1.8L DOHC 5v AGN, APG, APT, AQE, ARG, ARH, AVV ('97-'04)	CR4104XP					
1.8L DOHC Turbo AEB, AJL ('95-'01)	CR4104XP		MB5566XP		TW2010AM	
1.8L DOHC Turbo AGU, AJQ, AMK, APP, APU, APX, APY, AQA, ARK, ARZ, AUL, BAM, BFV ('97-'06)	CR4104XP					
1.8L DOHC Turbo AMB, ARX, ARY, AUM, AUQ, AVJ, AWT, BEX, BFB ('00->)	CR4104XP					
2.0L SOHC 3A, AAD, AAE, ABK, ABT, ADW ('88-'98)	CR4104XP		MB5566XP		TW2010AM	
2.0L DOHC 4v 6A, ACE ('90-'96)	CR4104XP		MB5566XP		TW2010AM	
2.0L DOHC 4v/5v ALT, AWA, AXW, BMB ('00-'08)	CR4597XP					
2.0L DOHC Turbo AXX, BGB, BUL, BWA, BWE ('04->)	CR4597XP					
BMW						
1.6L SOHC 8v M40B16, M43B16	CR4042XP		MB5082XP			
1.6L SOHC 16v W10B16 Mini Cooper	CR4537XP					
1.6L SOHC 16v Super Charged W11B16 Mini Cooper	CR4600XP					
1.8L SOHC/DOHC 8v/16v M40B18, M42B18, M43B18	CR4042XP		MB5082XP			
1.9L SOHC/DOHC 8v/16v M43B19, M44B19	CR4042XP		MB5082XP			
2.0L DOHC 16v S14B20	CR4596XP					
2.0L SOHC/DOHC 12v/24v M20B20, M50B20, M52B20	CR6640XP		MB7039XP			
2.2L DOHC 24v M54B22	CR6640XP					
2.3L DOHC 16v S14B23	CR4596XP					
2.3L SOHC 12v M20B23	CR6640XP		MB7039XP			
2.5L DOHC 16v S14B25	CR4596XP					
2.5L SOHC/DOHC 12v/24v M20B25, M50B25, M52B25, M54B25	CR6640XP		MB7039XP			
2.7L SOHC/DOHC 12v/24v M20B27, M50B27	CR6640XP		MB7039XP			
3.0L DOHC 24v M54B30	CR6640XP					
3.0L DOHC 24v S50B30			MB7039XP			
3.2L DOHC 24v S50B32	CR6853XP		MB7039XP			
3.2L DOHC 24v S52B32			MB7039XP			
3.2L DOHC 24v S54B32			MB7039XP			
CHRYSLER						
273i 4.5L OHV 16v V8	CR 805XPN		MB 558XP			CS 512HP
318i 5.2L OHV 16v V8	CR 805XPN		MB 558XP			CS 512HP
340i 5.6L OHV 16v V8	CR 805XPN		MB 558XP			CS 512HP
345i 5.7L OHV 16v V8 Hemi ('03->)	CR8032XPN		MB5659XP		TW1003AM	
350i 5.7L OHV 16v V8	CR 806XPND	CR 806HPND				
360i 5.9L OHV 16v V8	CR 805XPN					
361i 5.9L OHV 16v V8	CR 806XPND	CR 806HPND				
370i 6.1L OHV 16v V8 Hemi ('05->)	CR8032XPN		MB5659XP		TW1003AM	
383i 6.3L OHV 16v V8	CR 806XPND	CR 806HPND				
400i 6.6L OHV 16v V8	CR 806XPND	CR 806HPND				
413i 6.7L OHV 16v V8	CR 806XPND	CR 806HPND				
426i 7.0L OHV 16v V8 Hemi	CR 806XPND	CR 806HPND	MB5116XP	MB5116HP		CS 533HP
440i 7.2L OHV 16v V8	CR 806XPND	CR 806HPND	MB5116XP	MB5116HP		
FORD						
1.3L OHV 8v 273SE, 711M X Flow, 751M	CR 410XP		MB 512XP			
1.5L, 1.6L OHV 8v 116E Lotus	CR 410XP		MB 512XP			
1.6L/1.7L BDA, BDB, BDC, BDD	CR4540XP		MB 512XP			
2.0L DOHC Duratec	CR4515XP					
2.0L DOHC YB	CR4440XP		MB5672XP			
2.3L DOHC Duratec	CR4507XP					
140i 2.3L Inline 4 SOHC 8v 2300 Stroker			MB 582XP (->'90) MB5278XP ('89->)			
144i 2.3L OHV 12v Inline 6 Falcon	CR 618XP					
170i 2.8L OHV 12v Inline 6 Falcon	CR 618XP					
188i 3.0L OHV 12v Inline 6 Falcon	CR 618XP					
200i 3.3L OHV 12v Inline 6	CR 618XP		MB7703XP			
250i 3.9L OHV 12v Inline 6	CR 618XP		MB7703XP			
4.0L DOHC 24v (Incl. Turbo) Inline 6	CR 618XP		MB7063XP			
4.0L SOHC 12v EB-ED, EF-EL	CR 618XP		MB7703XP			
4.0L SOHC 12v Intech	CR 618XP		MB7063XP			



Engine	Conrod Bearing Set XP Series	Conrod Bearing Set HP Series	Main Bearing Set XP Series	Main Bearing Set HP Series	Thrustwasher Set	Cam bearings set
FORD						
260i 4.2L OHV 16v V8	CR 804XPN CR 804XPND	CR 804HPN	MB 529XP	MB 529HP		CS 514HP CS 514HPT
4.6L SOHC 16v Cast Iron Block, RomeoVin W ('91-'10), X ('96-'04), V ('06-'10)	CR 868XPN	CR 868HPN	MB5353XP	MB5353HP		CS 604BB
4.6L SOHC 16v Windsor Vin 6 ('96-'03), W ('93-'10), X ('96-'04)	CR 868XPN	CR 868HPN	MB5280XP	MB5280HP		CS 604BB
4.6L SOHC 24v Aluminum Block Vin 8 ('06-'10), H ('05-'10)	CR 868XPN	CR 868HPN	MB5283XP	MB5283HP		CS 604BB
4.6L DOHC 32v Aluminum BlockVin H, R, V, Y ('96-'05)	CR 868XPN	CR 868HPN	MB5283XP	MB5283HP		CS 605BB (DOHC-'96) CS 606BB ('96)
289i 4.7L OHV 16v V8	CR 804XPN CR 804XPND	CR 804HPN	MB 529XP	MB 529HP		CS 514HP CS 514HPT
302i 5.0L OHV 16v V8 Windsor	CR 804XPN CR 804XPND	CR 804HPN	MB 529XP	MB 529HP		CS 514HP CS 514HPT
302i 5.0L DOHC 32v V8 Coyote	CR 868XPN		MB5734XP			CS 516HP
5.4L SOHC 16v Windsor Vin 3 ('99-'04), L ('97-'10), Z ('98-'04)	CR 868XPN	CR 868HPN	MB5280XP	MB5280HP		
5.4L SOHC 24v Windsor Vin 5 ('04-'10), V ('06-'10)	CR 868XPN	CR 868HPN	MB5280XP	MB5280HP		
5.4L DOHC 32v In Tech Windsor Vin A ('99-'02), R ('01-'04)	CR 868XPN	CR 868HPN	MB5280XP	MB5280HP		
351i 5.7L OHV 16v V8 Cleveland	CR 813XPN		MB5503XP			CS 516HP
351i 5.7L OHV 16v V8 Windsor	CR 814XPN		MB5505XP (77-'98)			CS 514HP CS 514HPT
377i 6.2L, 408i 6.7L OHV 16v V8 Cleveland Stroker	CR8005XP		MB5503XP			
429i 7.0L		CR 874HP	MB5650XP	MB5650HP		CS 517HP CS 517HPT
460i 7.5L		CR 874HP	MB5650XP	MB5650HP		CS 517HP CS 517HPT
GENERAL MOTORS						
3.3L 12v 200 V6	CR6618XP					
3.8L 12v 229 V6	CR6618XP					
265i, 283i, 302i, 327i OHV 16v V8 ('55-'67)	CR 803XPN CR 803XPND	CR 803HPN	MB 554XP			CS 507HP CS 507HPT
262i, 265i, 267i, 302i, 305i, 307i, 327i, 350i OHV 16v V8 Small Block ('68-'96)	CR 807XPN CR 807XPND	CR 807HPN CR 807HPND	MB 557XP	MB 557HP		CS 507HP CS 507HPT
LS series 4.8L OHV 16v Vortec 5.3L OHV 16v Vortec 5.7L OHV 16v 6.0L OHV 16v (also Vortec) 6.2L OHV 16v (also Vortec)	CR 807XPN CR 807XPND	CR 807HPN CR 807HPND	MB5013XP			CS5510HP ('03-'10) CS5510HPT ('03-'10) CS5503HP ('97-'02) CS5503HPT ('97-'02)
400i OHV 16v V8 Small Block	CR 807XPN CR 807XPND	CR 807HPN CR 807HPND	MB 509XP	MB 509HP (3/4 grooved)		CS 507HP CS 507HPT
366i, 396i, 402i, 427i, 454i OHV 16v V8 Big Block	CR 808XPN CR 808XPND	CR 808HPN CR 808HPND	MB 556XP	MB 556HP		CS 524HP CS 524HPT
HOLDEN						
138i OHV 12v Red Motor	CR6649XP					
149i OHV 12v Red Motor	CR6649XP					
161i OHV 12v Red Motor	CR6649XP					
173i OHV 12v Red Motor	CR6649XP					
179i OHV 12v	CR6649XP					
186i OHV 12v Red Motor	CR6649XP					
174i 2.85L OHV 12v Blue Motor	CR6649XP		MB7704XP			
202i OHV 12v Red Motor	CR6649XP		MB7704XP			
202i OHV 12v Blue/Black Motor	CR6649XP		MB7704XP			
253i OHV 16v Red Motor	CR8007XP		MB5381XP			
253i OHV 16v Blue Motor	CR8007XP		MB5381XP			
308i OHV 16v Red Motor	CR8007XP		MB5381XP			
308i OHV 16v Blue Motor	CR8007XP		MB5381XP			
305i 5.0L OHV 16v	CR8007XP		MB5381XP			
308i 5.0L EFI OHV 16v	CR8007XP		MB5381XP			
348i 5.7L OHV 16v EFI Stroker	CR8007XP		MB5381XP			
355i OHV 16v Stroker	CR 807XPN		MB5381XP			
5.7L OHV 16v Gen III LS1						
6.0L OHV 16v Gen IV L76						
6.0L OHV 16v Gen IV L98	CR 807XPN		MB5013XP			CS5510HP ('03-'10) CS5510HPT ('03-'10) CS5503HP ('97-'02) CS5503HPT ('97-'02)
6.0L OHV 16v Gen IV LS2	CR 807XPND					
6.2L OHV 16v Gen IV LS3						
HONDA						
1.5L SOHC 8v/16v D15B, D15Z	CR4046XP					
1.6L DOHC 16v B16A	CR 439XP		MB5259XP		TW 140AM	
1.6L SOHC/DOHC 16v D16A, D16B	CR4046XP		MB5568XP		TW 140AM	
1.6L SOHC 16v D16W	CR4046XP		MB5568XP		TW 140AM	
1.6L SOHC/DOHC 16v D16Y, D16Z	CR4046XP		MB5568XP		TW 140AM	
1.6L SOHC/DOHC 8v/16v ZC	CR4046XP		MB5568XP		TW 140AM	
1.7L DOHC 16v B17A1	CR 439XP		MB5259XP		TW 140AM	
1.7L SOHC 16v D17A, D17Z			MB5568XP		TW 140AM	
1.8L SOHC 12v A18A	CR 439XP					
1.8L DOHC 16v B18A, B18A1	CR 439XP		MB5259XP		TW 140AM	
1.8L DOHC 16v B18B1, B18B2	CR 439XP		MB5259XP		TW 140AM	



Engine	Conrod Bearing Set XP Series	Conrod Bearing Set HP Series	Main Bearing Set XP Series	Main Bearing Set HP Series	Thrustwasher Set	Cam bearings set
HONDA						
1.8L DOHC VTEC 16v B18C1, B18C5	CR4287XP		MB5259XP		TW 140AM	
1.8L SOHC 12v ES, ET	CR 439XP		MB5259XP		TW 140AM	
1.8L SOHC 16v F18B	CR 439XP					
2.0L SOHC 12v A20A	CR 439XP					
2.0L SOHC 12v B20A3	CR 439XP		MB5568XP		TW 140AM	
2.0L DOHC 16v B20A5, B21A1	CR4033XP		MB5568XP		TW 140AM	
2.0L DOHC 16v B20B3, B20B8	CR 439XP		MB5259XP		TW 140AM	
2.0L DOHC 16v B20B4, B20Z2	CR4046XP		MB5259XP		TW 140AM	
2.0L SOHC 16v F20B	CR 439XP					
2.0L DOHC 16v F20C	CR4033XP		MB5673XP			
2.0L DOHC 16v K20A2, K20Z1	CR4542XP		MB5259XP		TW 140AM	
2.0L DOHC 16v K20A3	CR4541XP		MB5259XP		TW 140AM	
2.1L DOHC 16v B21A1	CR4033XP		MB5568XP		TW 140AM	
2.2L DOHC 16v F22C	CR4033XP		MB5673XP			
2.2L DOHC 16v H22A4, H22Z	CR4033XP		MB5568XP		TW 140AM	
2.3L SOHC 16v F23A, F23Z	CR4541XP		MB5568XP		TW 140AM	
2.4L DOHC 16v K24A, K24Z1	CR4542XP		MB5259XP		TW 140AM	
IHC TRACTOR						
5.9L DT361	CR1629XP		MB7747XP			
6.7L DT407	CR1629XP		MB7747XP			
JAGUAR						
2.8L XJ6	CR 697XP		MB 788XP			
3.4L XK6	CR 697XP		MB 788XP			
3.8L MK, XK	CR 697XP		MB 788XP			
4.2L XJ	CR 697XP		MB 771XP			
LANCIA						
2.0L 8v/16v Delta HF Integrale	CR4601XP		MB5730XP			
MAZDA						
1.5L DOHC 16v ZL-VE	CR4002XP		MB5304XP		TW 133AM	
1.5L DOHC 16v Z5-DE			MB5304XP		TW 133AM	
1.6L SOHC 8v B6, B6F	CR4002XP		MB5304XP		TW 133AM	
1.6L DOHC 16v B6D	CR4002XP		MB5304XP		TW 133AM	
1.6L DOHC 16v Turbo B6-T	CR4002XP		MB5304XP		TW 133AM	
1.6L SOHC 16v B6-2E/ME	CR4002XP		MB5304XP		TW 133AM	
1.6L DOHC 16v ZM-DE, ZMD	CR4002XP		MB5304XP		TW 133AM	
1.8L SOHC 16v BP	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v BP-T	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v BPD	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v BP-Z3	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v Turbo BP-Z3T	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v BP-4W	CR4002XP		MB5304XP		TW 133AM	
1.8L DOHC 16v BP-ZE	CR4002XP		MB5304XP		TW 133AM	
2.0L DOHC 16v LF MZR	CR4515XP					
2.3L DOHC 16v L3 MZR	CR4507XP					
2.3L DOHC 16v DISI Turbo L3-VDT MZR	CR4604XP					
MITSUBISHI						
1.5L DOHC 16v 4G91	CR4119XP		MB5176XP		TW 143AM	
1.6L SOHC 8v 4G32/G32B	CR4481XP		MB5227XP			
1.6L DOHC 16v (Incl. Turbo) 4G61, 4G61-T	CR4481XP		MB5227XP			
1.6L SOHC/DOHC 16v 4G92	CR4119XP		MB5176XP		TW 143AM	
1.7L SOHC 8v 4G35	CR4481XP		MB5227XP			
1.8L SOHC 8v 4G37	CR4481XP		MB5227XP			
1.8L SOHC/DOHC (Incl. Turbo) 4G93, 4G93-T	CR4119XP		MB5176XP		TW 143AM	
1.8L SOHC 8v (Incl. Turbo) 4G62/G62B, G62BT	CR4481XP		MB5227XP			
1.8L SOHC 8v Diesel 4D65	CR4481XP		MB5227XP			
1.8L SOHC 8v Turbo Diesel 4D65-T	CR4481XP		MB5227XP			
2.0L SOHC 8v Diesel 4D68	CR4120XP		MB5209XP			
2.0L 4G63 (->'92)	CR4481XP		MB5722XP			
2.0L 4G63 EVO I-IV ('92-'97)	CR4120XP		MB5209XP (incl. flanged brg) MB5315XP		TW 173AM	
2.0L 4G63 EVO V-IX ('97-'07)	CR4120XP		MB5315XP		TW 173AM	
2.0L DOHC 16v Turbo 4B11T Evo X ('07->)	CR4586XP		MB5227XP			
2.4L 4G64 EVO I-IV ('92-'97)	CR4120XP		MB5209XP (incl. flanged brg) MB5315XP		TW 173AM	
2.4L 4G64 EVO V-IX ('97-'07)	CR4120XP		MB5315XP		TW 173AM	
2.4L 4G64 (->'92)	CR4481XP		MB5227XP			
2.4L DOHC 16v 4G69	CR4120XP		MB5315XP			
NISSAN						
1.6L DOHC 16v CA16DE	CR 407XP		MB5232XP			
1.7L SOHC 8v Diesel CD17	CR 407XP		MB5232XP			
1.8L DOHC 16V (Incl. Turbo) CA18DE, CA18DET	CR 407XP		MB5232XP			



Engine	Conrod Bearing Set XP Series	Conrod Bearing Set HP Series	Main Bearing Set XP Series	Main Bearing Set HP Series	Thrustwasher Set	Cam bearings set
NISSAN						
2.0L SOHC 8v CA20E, CA20S	CR 407XP		MB5232XP			
2.0L DOHC 16v CA20ET	CR 407XP		MB5232XP			
2.0L SOHC 8v Diesel (Incl. Turbo) CD20, CD20-T			MB5232XP			
2.0L DOHC 24v (Incl. Turbo) RB20DE, RB20DET	CR6752XP		MB7008XP			
2.0L DOHC 16v (Incl. Turbo) SR20DE, SR20DET	CR4136XP (17mm)		MB5243XP		TW 139AM	
2.0L SR20DET (GTiR), 16v	CR4587XP (19mm)		MB5721XP			
2.0L DOHC 24v VQ20DE	CR6752XP		MB4058XP		TW 271AM	
2.5L DOHC 24v (Incl. Turbo) RB25DET, RB25DETT	CR6697XP		MB7008XP			
2.5L DOHC 24v VQ25DE, VQ25DET	CR6752XP		MB4058XP		TW 271AM	
2.6L DOHC 24v Turbo RB26DETT	CR6697XP		MB7092XP			
3.0L SOHC 12v (Incl. Turbo) RB30E, RB30ET	CR6676XP		MB7008XP			
3.0L DOHC 24v VQ30DE, VQ30DET	CR6752XP		MB4058XP		TW 271AM	
3.0L SOHC 12v VG30i	CR6676XP		MB4104XP			
3.0L DOHC 24v Twin Turbo VG30DETT	CR6676XP		MB4104XP			
3.3L SOHC 12v VG33E	CR6676XP		MB4104XP			
3.5L DOHC 24v VQ35DE	CR6775XP		MB4058XP		TW 271AM	
3.8L DOHC 24v Twin Turbo VR38DETT	CR1649XP		MB1271XP			
OPEL						
1.6L SOHC 8v 16N, 16SH	CR4017XP					
1.6L SOHC 8v Diesel 16D, 16DA	CR4017XP					
1.7L SOHC 8v Diesel 17D, 17DR	CR4017XP					
1.8L SOHC 8v 18E, 18N, 18NV, 18S, 18SE, 18SEH	CR4017XP					
1.8L SOHC 8v C18NE, C18NV, C18NT, C18NZ	CR4017XP					
1.8L DOHC 16v C18XE, C18XEL	CR4017XP					
1.8L SOHC 8v E18NV, E18NVR	CR4017XP					
1.8L SOHC 8v S18NV	CR4017XP					
1.8L DOHC 16v X18XE	CR4017XP					
2.0L DOHC 16v 20XE	CR4017XP					
2.0L SOHC 8v 20SE, 20SEH, 20SER	CR4017XP					
2.0L DOHC 16v Turbo C20LET	CR4017XP					
2.0L SOHC 8v C20NE	CR4017XP					
2.0L DOHC 16v C20XE	CR4017XP					
2.0L DOHC 16v X20SE, X20XEV	CR4017XP					
2.2L DOHC 16v C22SEL	CR4017XP					
2.2L DOHC 16v X22SE, X22XE	CR4017XP					
2.2L DOHC 16v Y22SE	CR4017XP					
PEUGEOT						
1.3L SOHC 8v TU2.4, TU2J2	CR4493XP					
1.4L SOHC 8v TU3A, TU3CP, TU3M, TU3S	CR4493XP					
1.4L SOHC 8v TU3.2, TU3J2/Z, TU3JP ('88->)	CR4493XP		MB5729XP			
1.4L SOHC 8v TU3JP ('05->)			MB5729XP			
1.4L SOHC 8v XY6B, XY7, XY8	CR4493XP					
1.5L SOHC 8v Diesel TUD5			MB5729XP			
1.6L SOHC/DOHC 8v/16v TU5J2, TU5J4, TU5JP, TU5JP4	CR4493XP		MB5729XP			
1.6L SOHC 8v XU5J, XU5JP	CR4493XP		MB5729XP			
1.8L DOHC 16v EW7J4	CR4603XP					
1.8L SOHC 8v XU7JB, XU7JP	CR4603XP					
1.8L DOHC 16v XU7JP4	CR4603XP					
1.9L SOHC 8v XU92C, XU9S	CR4602XP					
2.0L DOHC 16v EW10A, EW10D, EW10J4, EW10J4S	CR4603XP					
2.2L DOHC 16v EW12J4	CR4603XP					
2.0L DOHC 16v XU10J4, XU10J4RS, XU10J4TE	CR4602XP					
2.0L SOHC 8v XU102C, XU10J2, XU10J2TE, XU10M	CR4602XP					
PORSCHE						
2.0L OHC (inc. Turbo) 911, 914	CR6855XP					
2.2L OHC 911	CR6855XP					
RENAULT						
1.2L SOHC 8v 129-5/XZ7R R14	CR4493XP					
1.4L SOHC 8v 150-X5J R14	CR4493XP					
1.6L SOHC 8v Diesel F8M	CR4019XP		MB5180XP			
1.7L SOHC 8v F1N, F2N	CR4019XP		MB5180XP			
1.7L SOHC 8v F2R	CR4019XP		MB5180XP			
1.7L SOHC 8v F3N	CR4019XP		MB5180XP			
1.8L SOHC 8v F3P	CR4019XP		MB5180XP			
1.8L DOHC 16v F7P	CR4019XP		MB5180XP			
1.9L SOHC 8v Diesel, Turbo Diesel F8Q	CR4019XP		MB5180XP			
2.0L SOHC 8v F3R	CR4019XP		MB5180XP			
2.0L DOHC 16v F7R	CR4019XP		MB5180XP			
SAAB						
2.8L DOHC 24v Turbo LP9 (HFV6)	CR4606XP		MB5732XP			
SUBARU						
2.0L DOHC 16v (Incl. Turbo) EJ20 WRX/STI	CR4125XPG CR4280XP	(for 52mm journal) (for 48mm journal)	MB5382XPG MB5220XP	(flange in position 5) (flange in position 3)		



Engine	Conrod Bearing Set XP Series	Conrod Bearing Set HP Series	Main Bearing Set XP Series	Main Bearing Set HP Series	Thrustwasher Set	Cam bearings set
SUBARU						
2.2L SOHC 16v/DOHC 16v (Incl. Turbo) EJ22 WRX/STI	CR4125XPG CR4280XP	(for 52mm journal) (for 48mm journal)	MB5382XPG MB5220XP	(flange in position 5) (flange in position 3)		
2.5L SOHC 16v/DOHC 16v (Incl. Turbo) EJ25 WRX/STI	CR4125XPG CR4280XP	(for 52mm journal) (for 48mm journal)	MB5382XPG MB5220XP	(flange in position 5) (flange in position 3)		
SUZUKI						
1.3L SOHC 8v G13A	CR4605XP		MB5731XP		TW 134AM	
1.3L DOHC 16v G13B	CR4605XP		MB5731XP		TW 134AM	
1.3L SOHC 16v G13BB	CR4605XP		MB5731XP		TW 134AM	
1.3L SOHC 8v G13BA	CR4605XP		MB5731XP		TW 134AM	
1.5L DOHC 16v M15A	CR4594XP		MB5727XP			
1.6L DOHC 16v M16A	CR4594XP		MB5727XP			
1.8L DOHC 16v M18A	CR4594XP		MB5727XP			
TOYOTA						
1.3L SOHC 8 v 2A, 2A-LC			MB5527XP		TW 231AM	
1.4L DOHC 16v 6A-FC			MB5527XP		TW 231AM	
1.5L SOHC 8 v 3A, 3A-C, 3A-U			MB5527XP		TW 231AM	
1.5L DOHC 16v 5A-F, 5A-FE			MB5527XP		TW 231AM	
1.6L SOHC 8v 4A-C, 4A-LC			MB5527XP		TW 231AM	
1.6L DOHC 16v 4A-F, 4A-FE			MB5527XP		TW 231AM	
1.6L DOHC 16v/20v 4A-GE	CR4032XP		MB5527XP		TW 231AM	
1.6L DOHC 16v 4A-GEC, 4A-GELC	CR4032XP		MB5527XP		TW 231AM	
1.6L DOHC 16v Supercharged 4A-GZE	CR4032XP		MB5527XP		TW 231AM	
1.8L SOHC 8v 1S			MB5554XP		TW 226AM	
1.8L DOHC 16v 4S-FE			MB5554XP		TW 226AM	
1.8L DOHC 16v 7A-FE			MB5527XP		TW 231AM	
2.0L SOHC 8v 2S, 2S-E			MB5554XP		TW 226AM	
2.0L DOHC 16v 3S-FC, 3S-FE			MB5554XP		TW 226AM	
2.0L DOHC 16v (Incl. Turbo) 3S-GE, 3S-GTE	CR4209XP		MB5554XP		TW 226AM	
2.2L DOHC 16v 5S-FE			MB5554XP		TW 226AM	
2.5L DOHC 24v (Incl. Twin Turbo) 1JZ-GE, 1JZ-GTE	CR6754XP		MB7084XP		TW 284AM	
3.0L DOHC 24v (Incl. Twin Turbo) 2JZ-GE, 2JZ-GTE	CR6754XP		MB7084XP		TW 284AM	
4.0L DOHC 32v 1UZ-FE	CR 888XP		MB5286XP			
4.3L DOHC 32v 3UZ-FE	CR 888XP		MB5286XP			
4.5L DOHC 24v 1FZ-FE	CR6727XP					
4.7L DOHC 32v 2UZ-FE	CR 888XP		MB5286XP			
VOLKSWAGEN						
2.8L VR6	CR6764XP		MB7089XP			
VOLVO						
2.0L SOHC 8v (Incl. Turbo) B200	CR4599XP					
2.0L DOHC 16v (Incl. Turbo) B204	CR4599XP					
2.3L SOHC 8v (Incl. Turbo) B230	CR4599XP					
2.3L DOHC 16v B234	CR4599XP					
CUSTOM						
1.888" Rod Journal w/ 0.792" length	CR8028XP					
327 Crank Journal w/ 350 rod	CR 867XPN					
Spacer Bearing (use Chevy 350 crank in 400)				MB5224AM (spacer set)		



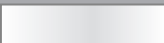
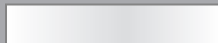
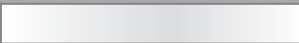
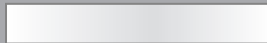
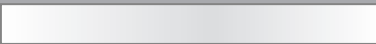
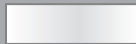
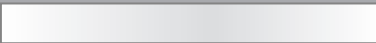
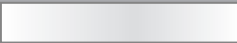
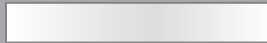
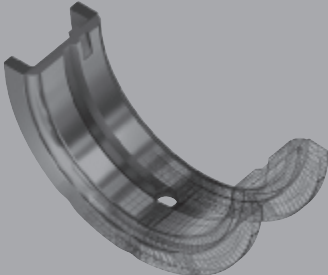
INTERCHANGE LIST:

ACL	KING
1B2500H	CR1649XP
4B1060H	CR4540XP
4B1110H	CR4595XP
4B1146H	CR4481XP
4B1185H	CR4120XP
4B1236H	CR4586XP
4B1490H	CR4042XP
4B1568H	CR4596XP
4B1606H	CR4104XP
4B1609H	CR4597XP
4B1630H	CR 407XP
4B1780H	CR4032XP
4B1906H	CR4541XP
4B1912H	CR4033XP
4B1925H	CR4287XP
4B1946H	CR 439XP
4B1956H	CR4046XP
4B1972H	CR4542XP
4B2010H	CR4606XP
4B2166H	CR4440XP
4B2322H	CR4017XP
4B2726H	CR4599XP
4B2902H	CR4600XP
4B2903H	CR4537XP
4B2904H	CR4601XP
4B2960H	CR4136XP
4B2976H	CR4587XP
4B4390H	CR4515XP
4B603H	CR 410XP
4B7700H	CR4602XP
4B7712H	CR4493XP
4B7736H	CR4603XP
4B7820H	CR4019XP
4B8036H	CR4119XP
4B8170H	CR4507XP
4B8172H	CR4604XP
4B8296H	CR4125XPG
4B8320H	CR4280XP
4B8336H	CR4605XP
4B8351H	CR4002XP
4B8366H	CR4209XP
4B8440H	CR4594XP
6B1227H	CR6618XP
6B1490H	CR6640XP
6B1497H	CR6853XP
6B1515H	CR6854XP
6B2150H	CR 618XP
6B2380H	CR6649XP
6B2390H	CR6676XP
6B2452H	CR6855XP
6B2630H	CR6752XP
6B2640H	CR6775XP
6B2960H	CR6697XP
6B7990H	CR6727XP
6B8100H	CR6754XP
8B1227H	CR8005XP
8B1442H	CR 868XPN CR 868HPN
8B1663H	CR8028XP
8B1808H	CR8032XPN
8B2356H	CR8007XP
8B481H	CR 805XPN
8B527HD	CR 806HPND CR 806XPND
8B634H	CR 804XPN CR 804HPN
8B663H	CR 807XPN CR 807HPN
8B663HD	CR 807XPND CR 807HPND
8B743H	CR 808XPN CR 808HPN
8B743HD	CR 808XPND CR 808HPND
8B745H	CR 803XPN CR 803HPN

ACL	KING
8B8091H	CR 888XP
8B818H	CR 874HP
8B831H	CR 814XPN
1M2505H	MB1271XP
4M2633H	MB4058XP
4M2737H	MB4104XP
5M1010H	MB5503XP
5M1038H	MB 509XP MB 509HP
5M1039H	MB5650XP MB5650HP
5M1112H	MB 511XP
5M1117H	MB 582XP
5M1144H	MB5227XP
5M1186H	MB5209XP
5M1219H	MB5315XP
5M1237H	MB5722XP
5M1432H	MB5505XP
5M1538H	MB5082XP
5M1633H	MB5232XP
5M1644H	MB5566XP
5M1695H	MB5527XP
5M1743H	MB5278XP
5M1913H	MB5673XP
5M1957H	MB5568XP
5M1959H	MB5259XP
5M2015H	MB5732XP
5M2152H	MB 512XP
5M2167H	MB5672XP
5M2220H	MB5659XP
5M2357H	MB5381XP
5M2797H	MB5729XP
5M2908H	MB5730XP
5M2964H	MB5243XP
5M2975H	MB5721XP
5M429H	MB 554XP
5M5647H	MB5283XP MB5283HP
5M590H	MB 529XP MB 529HP
5M7296H	MB5280XP MB5280HP
5M7298H	MB5013XP
5M7807H	MB5180XP
5M8037H	MB5176XP
5M8092H	MB5286XP
5M8297H	MB5220XP
5M829H	MB 556XP
5M8309H	MB5382XPG
5M8337H	MB5731XP
5M8353H	MB5304XP
5M8361H	MB5554XP
5M8443H	MB5727XP
5M896H	MB5116HP MB5116XP
5M909H	MB 557XP MB 557HP
7M1532H	MB7039XP
7M2092H	MB7063XP
7M2158H	MB7703XP
7M2394H	MB7008XP
7M2428H	MB7092XP
7M8103H	MB7084XP
1T1219	TW 173AM
1T1957	TW 140AM
1T2964	TW 139AM
1T611S	TW1003AM
1T8037	TW 143AM
1T8337	TW 134AM
1T8353	TW 133AM
2T1644	TW2010AM
2T1689	TW 226AM
2T1695	TW 231AM
2T2633	TW 271AM
2T8103	TW 284AM

CLEVITE	KING
CB-1120HN x4	CR4481XP
CB-1353H x4	CR 439XP
CB-1426H x4	CR4104XP
CB-1442H x8	CR 868XPN CR 868HPN
CB-1453H	CR4002XP
CB-1461HN x4	CR4046XP
CB-1628H x6	CR6754XP
CB-1629H x4	CR4136XP
CB-1629H x6	CR6697XP
CB-1643H x4	CR4120XP
CB-1657H x4	CR4125XPG
CB-1663H x8	CR8028XP
CB-1780H x4	CR4033XP
CB-1785H x4	CR4287XP
CB-1808HN	CR8032XPN
CB-1838H	CR4507XP
CB-1840H	CR4515XP
CB-1856HN x8	CR 867XPN
CB-1861H x4	CR4542XP
CB-1918H x4	CR4586XP
CB-481HN x8	CR 805XPN
CB-527HD x8	CR 806XPND
CB-527HND x8	CR 806HPND
CB-634H x8	CR 804XPN CR 804HPN
CB-663H x8	CR 807XPN CR 807HPN
CB-663HD x8	CR 807XPND CR 807HPND
CB-663HN x8	CR 807XPN CR 807HPN
CB-663HND x8	CR 807XPND CR 807HPND
CB-743H x8	CR 808HPN
CB-743HD x8	CR 808XPND
CB-743HN x8	CR 808HPND
CB-745H x8	CR 803XPN CR 803HPN
CB-818H x8	CR 874HP
CB-831HN x8	CR 814XPN
MS-1010H	MB5503XP
MS-1038H	MB 509XP MB 509HP
MS-1039V	MB5650XP MB5650HP
MS-1432H	MB5505XP
MS-1564P	MB5224AM
MS-1795H	MB5116HP
MS-1795M	MB5116XP
MS-1802H	MB5304XP
MS-1804H	MB5568XP
MS-2007H	MB5353XP MB5353HP
MS-2014H	MB7084XP
MS-2015H	MB5243XP
MS-2039H	MB5209XP
MS-2095H	MB5259XP
MS-2198H	MB5283HP
MS-2199H	MB5013XP
MS-2202H	MB5280XP MB5280HP
MS-2220H	MB5659XP
MS-2258H	MB5382XPG
MS-2259H	MB5283XP
MS-2261H	MB5315XP
MS-2292H	MB5734XP
MS-2307H	MB5722XP
MS-2309H	MB5673XP
MS-429H	MB 554XP
MS-540H	MB 558XP
MS-590H	MB 529XP MB 529HP
MS-829H	MB 556XP MB 556HP
MS-909H	MB 557XP MB 557HP
TW-455S	TW 134AM
TW-472S	TW 133AM
TW-611S	TW1003AM



	 HP SERIES	 XP SERIES
Metal structure	Bi-metal aluminum silicon alloy	Tri-metal copper lead
Competition Type	For applications requiring a harder than Babbitt top layer to better resist extrusion & material migration (drag racing, monster truck, tractor pull). Also for all other applications using nodular cast iron crankshafts.	Circle track, drag racing, off-shore, others using steel crankshafts.
Load Characteristics	High load/short duration or medium load/long duration	High load/long duration
Load Capacity	 8.000 psi	 10.200 psi
Melting Temp	 450° F	 350° F
Embedability		
Conformability		
Compatibility		
		



- 1 Bearing types:
 - MB - Main bearing set
 - CR - Con rod bearing set
 - CS - Camshaft bearing set
 - TW - Thrust washer set

- 2 Number of pairs in a set

- 3 Random code

- 4 Material construction:

Main & Rod bearing suffixes

- HP - Bi-metal aluminum silicon alloy
- XP - Tri-metal copper lead

Thrustwasher suffix

- AM - Aluminum based material

Cam bearing suffix

- BB - Lead base Babbitt material
- HP - Micro Babbitt chill cast & burnished construction
- HPT - HP construction with fluoropolymer coating

- 5 Bearing features:

- a. N- narrowed
- b. D-dowel

- 6 Dimension/undersize e.g "STD" for standard, X equals .001" extra clearance

Dimension sizes:

Bearing size inches	STDX	STD	.001"	.010X	.010"	.011"	.020X	.020"	.021"	.030"
Bearing size metric	STDX	STD	.025		0.25			0.5		0.75
Crankshaft undersize	0	0	0	-.010"	-.010"	-.010"	-.020"	-.020"	-.020"	-.030"
Additional shell thickness (on nominal)	-.0005"	0	+.0005"	+.0045"	+.005"	+.0055"	+.0095"	+.010"	+.0105"	+.015"

- 7 Item barcode

- 8 i-King code for online verification and warranty activation



www.kingracebearings.com

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MRK-RC003 REV-02

