



IPD Products for Cummins® ISX/QSX ENGINE

The Standard for Quality, Innovation, Service and Support Since 1955



IPD, A SAFE AND SECURE INVESTMENT

Since 1955, IPD has lowered owner's of engines costs without sacrificing quality, engine life or performance by providing a cost effective quality product line alternative. Our robust product line covers a wide range of products for Caterpillar® 3114 up to 3524 diesel and natural gas engines as well as Detroit Diesel® Series 60 and Cummins® ISX/QSX.

IPD recognizes the importance of repairing engines with quality products as these pieces of equipment or machines are an investment and source of revenue for their owners, and we do not take that lightly. We use only quality materials and our 55 plus years of manufacturing experience has taught us how to build quality into our IPD products from the beginning. Moreover, IPD's ISO based QC process assures that our customers receive products that have passed our high quality assurance standards. Additionally, our comprehensive and clearly stated warranties give our customers the needed peace of mind when purchasing IPD products because they know they are covered and protected.

IPD is ISO9001:2008 certified by Lloyd's Register®, who is recognized and respected worldwide for high standards of technical competence, impartiality and independence. Being ISO9001:2008 certified provides our customers the assurance of a consistent experience with our compliance to the ISO controls and processes. The extent to which IPD has developed its ISO process and made it a part of virtually every aspect of IPD is uncommon practice in most companies in the aftermarket parts industry.

You can read more about IPD quality and our differentiations at www.ipdparts.com. Thank you for taking the time to view this document and we appreciate the opportunity to prove to you what truly sets IPD apart from our competition.



IPD ISX/QSX PRODUCT LINE

Our product line features many differentiators that sets IPD apart from our competition. Listed below are just a few product highlights of the IPD ISX/QSX series engines line.

IPDSteel™ One Piece Piston

Each IPDSteel™ Piston starts with a heat treated high strength steel casting, a manufacturing process developed by IPD. This process has been extensively tested and successfully proven in many applications since 2003. For the ISX/QSX, IPD offers the latest open and closed skirt profiles depending on application.



Main and Rod Bearings

Our main and rod bearings are bi-metal bearing with a copper/lead alloy and steel backed for fitment, strength and durability. The layered structure of the bearings provides optimum performance. The result is fatigue strength, seizure resistance, wear resistance, conformability, embeddability as well as corrosion and cavitation resistance.



Gaskets and Gasket Kits

IPD uses premier materials designed for heavy duty industrial engine applications. Integral valve cover and oil pan seals are composed of a metal core and molded rubber to assure a positive seal. Our one piece head gasket has been designed to be used with flat top cylinder liners, which IPD offers as well.

Piston pin

Piston pins from IPD for Cummins® ISX/QSX are manufactured from a hardened chromium, molybdenum, nickel alloy steel to produce excellent tensile strength and wear resistance.



Cylinder Liners

IPD cylinder liners for Cummins ISX/QSX applications are induction hardened for improved wear resistance and strength. IPD offers the latest “flat top” liner flange profile that can also be retrofitted to earlier engines in complete sets.

Valve Train Components

IPD is known world-wide for providing the highest quality valve train components throughout our product line. This continues with our ISX/QSX program where exhaust valves for example are made of high quality 23-8N material. This material is a austenitic, nitrogen-bearing chrome-nickel alloy possessing excellent high temperature strength, hardness and corrosion resistance to combustion by-products. In addition IPD specifies grade 6 Stellite™ facing for wear resistance.

Intake Valves from IPD are created from EN52 valve steel that has mechanical properties such as low rate of fatigue crack growth and increases in fatigue strength.

QUICK REFERENCE GUIDE FOR IPD ISX AND QSX PRODUCTS

DESCRIPTION	IPD PART NUMBER	QTY REQUIRED	NOTES
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In-Frame Kits

In-Frame Kit IPDSteel Piston	IF9894/96	1	Includes 1 Piece IPDSteel Pistons (Open Skirt with Radius Bowl), Liners with seals, Ring Sets, Piston Pins, Retainers, Rod and Main Bearings, Bypass Plunger Valve, Head Gasket Set, Pan Gasket and P/U Tube O-ring. Must be used with drilled connecting rods.
In-Frame Kit IPDSteel Piston	IF9895/95	1	Includes 1 Piece IPDSteel Pistons (Open Skirt with Chamfer Bowl), Liners with Seals, Ring Sets, Piston Pins, Retainers, Rod and Main Bearings, Bypass Plunger Valve, Head Gasket Set, Pan Gasket and P/U Tube O-ring. Must be used with drilled connecting rods.
In-Frame Kit IPDSteel Piston	IF5966/95	1	Includes 1 Piece IPDSteel Pistons (Closed Skirt with Large 2.250" Center Bowl Configuration), Liners with Seals, Ring Sets, Piston Pins, Retainers, Rod and Main Bearings, Bypass Plunger Valve, Head Gasket Set, Pan Gasket and P/U Tube O-ring. Must be used with drilled connecting rods.
In-Frame Kit IPDSteel Piston	IF5967/95	1	Includes 1 Piece IPDSteel Pistons (Closed Skirt with Small 1.930" Center Bowl Configuration), Liners with Seals, Ring Sets, Piston Pins, Retainers, Rod and Main Bearings, Bypass Plunger Valve, Head Gasket Set, Pan Gasket and P/U Tube O-ring. Must be used with drilled connecting rods.
Re-Ring In-Frame O/H Kit	IF4089154/95	1	For early style 2 Piece Articulated Pistons. Includes Liners with Seals, Ring Sets, Retainers, Rod and Main Bearings, Bypass Plunger Valve, Head Gasket Set, Pan Gasket and P/U Tube O-ring. Does NOT include Piston Crowns, Skirts, or Piston Pins.

Piston Kits and Components

Piston & Liner Assembly	PLG4089894	6	Includes 1 Piece Steel Piston (Open Skirt with Radius Bowl. #4923743),Liner with Seal, Pin, Retainers & Ring Set. Use in Full Sets Only. Do Not Mix Piston numbers. Must be used with drilled connecting rods.
Piston & Liner Assembly	PLG4089895	6	Includes 1 Piece Steel Piston (Open Skirt with Chamfer Bowl. #4923744),Liner with Seal, Pin, Retainers & Ring Set. Use in Full Sets Only. Do Not Mix Piston numbers. Must be used with drilled connecting rods.
Piston & Liner Assembly	PLG4955966	6	Includes 1 Piece Steel Piston (Closed Skirt with Large 2.250" Center Bowl Configuration. #2863938), Liner with Seal, Pin, Retainers & Ring Set. Use in Full Sets Only. Do Not Mix Piston numbers. Must be used with drilled connecting rods.
Piston & Liner Assembly	PLG4955967	6	Includes 1 Piece Steel Piston (Closed Skirt with Small 1.930" Center Bowl Configuration. #2863939),Liner with Seal, Pin, Retainers & Ring Set. Use in Full Sets Only. Do Not Mix Piston numbers. Must be used with drilled connecting rods.
Liner Kit	4089153	6	"Flat-Top" Liner with Seal
Ring Group	4089406	6	For 1 Piece Steel Pistons Only
Ring Group	4089154	6	For 2 Piece Articulated Pistons Only
Piston Pin	4923748	6	
Retainer, Piston Pin	3064305	12	
Liner O-Ring	3678738	6	

QUICK REFERENCE GUIDE FOR IPD ISX AND QSX PRODUCTS

DESCRIPTION	IPD PART NUMBER	QTY REQUIRED	NOTES
ENGINE BEARINGS AND BUSHINGS			
Main Bearing Set, Std	3800298	1	Standard
Main Bearing Set, .25mm	4089845	1	.25mm
Rod Bearing, Std	4089405	6	Standard for drilled and non-drilled rods. 6 per engine.
Rod Bearing Kit, .25mm	4090016	1	.25mm, for drilled and non-drilled rods. 1 kit per engine.
Cam Bushing	3680580	4	Left Bank
Cam Bushing	3680581	3	Left Bank
Cam Bushing	4026423	7	Right Bank
VALVE TRAIN PARTS			
Valve, Exhaust	4101454	12	20 degree
Valve, Intake	4965868	12	20 degree
Valve, Spring	3679551	24	
Valve Guide	4026657	12	
Valve Lock	3680883	48	
Seal, Valve Stem	4026791	24	Intake and Exhaust
Seal, Valve Stem	4026660	12	Intake
Seat, Valve Spring	3680318		
Insert, Valve Seat-Intake	3679537	12	
Insert, Valve Seat-Intake	3679659	12	Cobalt based with Stellite
Insert, Valve Seat-Exhaust	3104445	12	
Sleeve, Injector	3412352	6	
GASKET SETS, GASKETS & SEALS			
Gasket Set, Upper	4955595	1	Non-EGR Engines. Use only with "Flat-Top" liners
Gasket Set, Upper	4955596	1	
Gasket, Oil Pan	4026684	1	
Seal, O-Ring	3678756	1	
MISCELLANEOUS ITEMS			

IPD will continue to add to our Cummins® ISX/QSX product coverage so please check with your IPD Regional Manager or Customer Service Representatives for updates as well as our web site at www.ipdparts.com.

IPD ENGINE MODEL SUMMARY

CATERPILLAR®

D3508 / D3512 / D3516 / D3524
G3508 / G3512 / G3516/ G3520
D3406 / D3408 / D3412
D3406E /D3408E/ D3412E
G3406 / G3408 / G3412
D3304 / D3306 / D333
G3304 / G3306 / G333
3204 / 3208

3114 / 3116 / 3126
3064 / 3066
D379 / D398 / D399
G379 / G398 / G399
D353 / G353
D339 / D342 / G342
D343 / D346 / D348
C15
C12

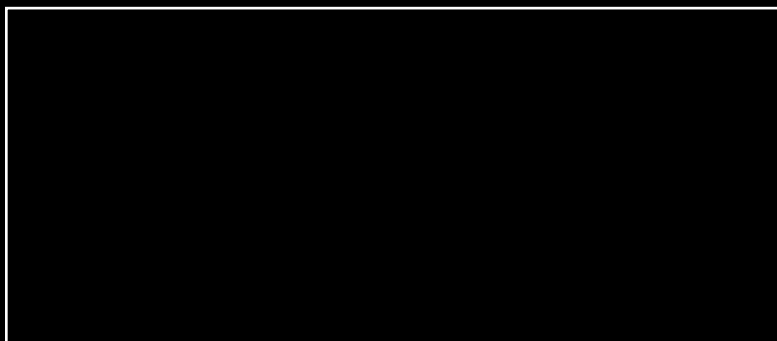
DETROIT DIESEL®

60 Series

CUMMINS®

ISX/QSX

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