



# IPD PARTS FOR SPARK-IGNITED GAS ENGINES

IPD offers our customers quality and reliable engine overhaul repair parts. Since 1955, IPD has manufactured and distributed a wide range of quality and precision-engineered repair components for spark-ignited gas engines.



ISO 9001:2015 Certified

## **POWER GENERATION**

IPD parts have been selected by demanding power generation facilities for decades and have proven to provide reliable performance and savings that help reduce operating costs and improve profitability.

## **GAS COMPRESSION**

When it comes to natural gas storage and transportation, it's critical that your gas engine is running at full speed. You can rely on IPD engine components to satisfy your gas compression needs and keep the pipes flowing.

# **USE IPD PARTS WHEN**

## **FROM NATURAL GAS COMPRESSORS**

to landfill and methane-powered generation sites worldwide, IPD provides the spark-ignited gas engine components owners can rely on. Caterpillar®, Cummins®, and Waukesha® engine equipment owners have learned that IPD parts provide OE level performance at a lower cost. IPD parts help maximize engine run time, lower operational cost per hour, and reduce engine downtime. Using IPD parts provides savings for each overhaul, which can compound over time to a considerable operational cost reduction per engine.

## **SAVINGS WITHOUT RISK**

IPD quality parts are all backed by an industry-leading 2-years/unlimited hours of operation on all IPD parts except valvetrain (warranted for 1 year/unlimited hours).

Spark-ignited gas engines must perform consistently for many years under constant load. Only quality parts like IPD's will meet these demands year after year and provide the total engine service life that you expect. Don't fall for "repackagers" that sell parts from a wide range of manufacturers to save you a buck. IPD maintains strict quality assurance processes. IPD parts are thoroughly engineered to ensure that the highest-level specifications are developed and maintained. IPD has in-house design, engineering and quality assurance teams. We properly conduct metallurgical testing and analysis with internal and external laboratories. We are experts in metrology and our entire company is ISO 9001: 2015 certified.

## LANDFILL GAS

Capturing this renewable energy resource from landfills is time-sensitive and not a moment can be wasted. Uptime is critical so it's essential to have reliable engine replacement parts to prevent downtime and keep the power on.

## DRILLING

You might be running 24/7, unmanned, and you might be 20 miles off shore. Downtime and high costs are your enemy – IPD can help you with both.

# YOU NEED POWER

## EXCEPTIONAL SERVICE AND SUPPORT

You can find IPD Distribution Centers throughout the Americas, Europe and Australia and distributors in over 110 countries. IPD's customer service representatives are among the most knowledgeable in the industry and available to answer questions, assist with quotes and orders and provide technical support. We also offer online technical support, online ordering through IPDNet and marketing service and field support through our experienced Regional Managers to help build our markets together.

## ISO 9001: 2015 CERTIFIED

IPD is an ISO 9001:2015 Certified Company. IPD is committed to quality in everything we do. Our goal is to provide our customers with the highest quality products by striving to meet or exceed our customer's expectations through teamwork, continuous improvement, and innovation.



# PARTS ARE NOT JUST PARTS

IPD offers the highest level of quality engine repair parts for diesel engines.

## IPD PISTON RINGS

IPD piston ring sets are application-specific for maximum performance and durability. Premium materials and processes are utilized for improved hardness, friction reduction, and resistance to corrosion and wear/scuffing. IPD developed innovative tri-fold/marked packaging sleeves to protect rings during shipping and handling and each ring position to minimize installation errors.



## BEARINGS

IPD bearings incorporate materials and coatings designed to ASTM (American Society for Testing & Materials) standards, with such high-quality materials as SAE carbon steel and copper aluminum alloys for long life and reliable performance. IPD also utilizes special application-specific construction specifications, such as an advanced 5-layer design with optimized copper, lead and tin microstructure materials.



## PISTONS AND PINS

IPD pistons are engineered at IPD's headquarters in Torrance, California, USA. IPD offers pistons for diesel and spark-ignited engines including:

- **1-piece aluminum** with nickel alloy ring carriers and extra bond checking for improved reliability
- **2-piece articulated pistons** with steel crowns and aluminum skirt
- **1-piece steel piston** where applications demand it
- **2-piece friction welded piston** for high cylinder pressure applications
- **IPD piston pins** are case hardened for strength and durability. They are engineered from high tensile, high yield strength quality materials.

**CATERPILLAR®**

**WAUKESHA®**

**CUMMINS®**

ENGINES	G3300	G3400	G342	G353	G379	G398	G399	G3500	G3600	Waukesha 7042/7044	KT19 Gas
<b>ENGINE-OVERHAUL KITS</b>											
Engine Kits - In Frame	■										
Engine Kits - Out of Frame	■										■
<b>ENGINE-PARTS (MISC.)</b>											
Camshafts	■										
Crankshafts	■										
Cylinder Kits / Piston Liner Groups	■	■	■	■	■	■	■	■		■	■
Cylinder Liners / Liner Kits/ Inserts	■	■	■	■	■	■	■	■		■	■
Piston Rings/ Sets, Pins, Retainers	■	■	■	■	■	■	■	■		■	■
Pistons / Piston Kits	■	■	■	■	■	■	■	■		■	■
Thermostats / Regulators	■	■	■	■	■	■	■	■			
Vibration Damper	■	■									
<b>ENGINE-GASKETS / SETS</b>											
Gasket Sets - IPD Style Sets	■	■	■	■	■	■	■	■	■		
Gasket Sets - OEM Style Sets	■	■	■	■	■	■	■	■	■	■	■
Misc Gaskets & O-Rings	■	■	■	■	■	■	■	■	■	■	■
Oil & Crank Seals	■	■	■	■	■	■	■	■		■	■
Gaskets	■	■	■	■	■	■	■	■		■	■
Gaskets, Cylinder Head	■	■	■	■	■	■	■	■	■	■	■
<b>ENGINE-VALVETRAIN</b>											
Guides	■	■	■	■	■	■	■	■		■	■
Rotocoils / Spring Retainer	■	■	■	■	■	■	■	■		■	■
Seats/Inserts	■	■	■	■	■	■	■	■		■	■
Springs / Spring Seats	■	■	■	■	■	■	■	■		■	■
Valves / Valve Kits & Locks	■	■	■	■	■	■	■	■		■	■
<b>ENGINE-BEARINGS/BUSHINGS</b>											
Camshaft	■	■	■	■	■	■	■	■		■	■
Main	■	■	■	■	■	■	■	■		■	■
Connecting Rod	■	■	■	■	■	■	■	■		■	■
Thrust	■	■	■	■	■	■	■	■		■	■
Misc. Bushings	■	■	■	■	■	■	■	■			
<b>PUMPS &amp; COOLERS</b>											
Oil Pumps, Engine	■	■									
Oil Coolers, Engine	■	■									
Water Pumps / Water Pump Idlers	■	■									
Water Pump Repair Kits	■	■	■	■	■	■	■	■			
Water Pump Parts	■	■	■	■	■	■	■	■			
<b>INSTALLATION PARTS</b>											
Bolts (Head, Con, Rod, and/or Misc.)	■	■						■			
Spacer Plates		■						■			



### **VALVETRAIN:**

IPD valvetrain is preferred by machine shops worldwide since IPD only uses superior materials to prevent corrosion and wear resistance.

- **Valves:** friction welded in optimized locations to ensure superior strength by application
- **Valve seat:** Precision engineered seats analyzed for seating angle accuracy as well as various other crucial dimensions
- **Springs:** Evaluated for spring rates (opening and closing) and compression force ensuring strength, hardness, corrosion resistance and durability
- **Guides:** Feature geometric groove patterns and special coatings like graphite phosphate for enhanced lubricity and hardness

### **ENGINE OVERHAUL KITS**

IPD also offers complete Engine Overhaul Kits – in-frame and out-of-frame kits for specific popular applications – providing all the components needed for a complete overhaul. We also have a range of miscellaneous hardware components available like bolts and rocker arms, as well as water pumps, oil pumps, pump rebuild kits and oil coolers for popular engines.

### **CYLINDER LINERS:**

Many years ago, IPD pioneered the technology of induction-hardening on cylinder liners for heavy-duty applications and continues this process on all applicable IPD liners today.



# **IPD Parts for Diesel and Spark-Ignited Engine Applications**

## **CATERPILLAR®**

**C-Series – C6, C7, C9, C10, C12, C13, C15, C18, C27, C32  
300 Series, 3000, 3100, 3200, 3300, 3400, 3500, 3600**

## **CUMMINS®**

**ISX / QSX (dual cam), ISX15 / QSX15 (single cam),  
and K Series (19L, 38L, 50L)**

**DETROIT DIESEL® 60 Series, DD15**

**WAUKESHA® VHP Series (7042/7044)**



**IPD®**

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