

HYUNKOOK (GUANGZHOU) MACHINERY CO., LTD.



# RELIABLE OEM PARTS EXPERT SERVICE

50,000 parts for many models offer  
you affordability without sacrificing quality.

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## CATALOGUE

# ENGINE OVERHAUL KIT



## FIT KOMATSU 6D102 ENGINE OVERHUAL KIT

| 6738 Engine Overhaul Kit |                          |           |             |             |            |            |          |
|--------------------------|--------------------------|-----------|-------------|-------------|------------|------------|----------|
| Applicable Engine Model  | Applicable Machine Model |           |             |             |            |            |          |
| SAA6D102E-2              | BP500-7                  | GD405A-3  | PC210-7     | PC230-7     | WA200-5    | WA250PT-5  | WA320L-5 |
|                          | BR120T-1                 | GD555-3   | PC210LC-7   | PC230LC-7   | WA200L-5   | WA250PTL-5 |          |
|                          | BR300S-1B                | GD555-3A  | PC220-7     | PC270-7     | WA200PT-5  | WA250PZ-5  |          |
|                          | BR300S-2                 | PC200-7   | PC220LC-7   | PC308USLC-3 | WA200PTL-5 | WA270-5    |          |
|                          | BR380JG-1                | PC200LC-7 | PC228US-3   | WA150-5     | WA250-5    | WA320-5    |          |
|                          | BZ210-1                  | PC200SC-7 | PC228USLC-3 | WA150PZ-5   | WA250L-5   | WA320-5L   |          |

### HYK-6738-C Engine Overhaul Kit ▼



| Part No      | Description                 | Qty Per Engine | Unit   | Overhaul Kit Part No |                      |
|--------------|-----------------------------|----------------|--------|----------------------|----------------------|
| 6738-31-2111 | Piston                      | 6              | Pieces | 6D102 C Overhaul Kit | 6D102 D Overhaul Kit |
| 6738-31-2031 | Piston Ring Set             | 6              | Set    |                      |                      |
| 6732-31-2410 | Piston Pin                  | 6              | Pieces |                      |                      |
| 6736-29-2110 | Liner                       | 6              | Pieces |                      |                      |
| 6732-31-2420 | Piston Retainer             | 6              | Pair   |                      |                      |
| 6735-21-8100 | Main Bearing-Thrust Bearing | 1              | Set    |                      |                      |
| 6732-31-3411 | Conn Rod Bearing            | 1              | Set    |                      |                      |
| 6732-31-3132 | Conn Rod Sleeve             | 6              | Pieces |                      |                      |
| 6738-K1-1100 | Gasket Kit-K1               | 1              | Set    |                      |                      |
| 6738-K2-1100 | Gasket Kit-K2               | 1              | Set    |                      |                      |
| 6736-41-4110 | Inlet Valve                 | 6              | Pieces | 6D102 D Overhaul Kit | 6D102 D Overhaul Kit |
| 6736-41-4210 | Exhaust Valve               | 6              | Pieces |                      |                      |
| 6732-11-1180 | Insert-Inlet Valve          | 6              | Pieces |                      |                      |
| 6732-11-1170 | Insert-Exhaust Valve        | 6              | Pieces |                      |                      |
| 6736-18-1310 | Valve Guide                 | 12             | Pieces |                      |                      |
| 6732-41-4520 | Clip-Valve                  | 24             | Pieces |                      |                      |

### HYK-6738-C Engine Overhaul Kit ▼





6732-41-3111



6732-41-4520

# ACCESSORIES

# PART OF THE 6D102



6732-41-4510



6736-18-1310



6732-41-4430



6736-41-4110



6732-11-1170



6732-11-1180



6736-41-4210



6732-31-2410



6732-31-2420



6732-31-3411



6738-31-2031



6732-31-3132



6738-31-2111



6735-01-1310



6732-01-1320



6732-41-1111



6735-21-8100



6735-41-1111



6735-21-8610

# WE ALSO SUPPLY

Engine Block, Cylinder Head, Crankshaft, Turbocharger, Fuel System, Electric System, Overhaul Kits

# 6D102



6735-61-2220



6732-21-1411



6731-61-2151



6735-61-6471



6735-61-1101



6735-61-2110



6735-61-2160



6732-31-3310



6732-41-1220



702-21-57400C

OEM Factory For

Caterpillar, Komatsu, Cummins, Detroit Diesel, Macbee, CPT, FP, KMP  
 Agricultural Equipment – Perkins, John Deere, Case IH, Ford

# 6D102



6736-61-4110



6731-51-1111



6738-11-4870



6738-11-4840



6738-11-4810



6732-81-3440



20Y-03-31230



6738-11-4720



20Y-03-31221



6738-K1-1100



6738-K2-1100

## FIT KOMATSU 4D107 6D107 ENGINE OVERHUAL KIT

| 6751 Engine Overhaul Kit |                          |             | 6754 Engine Overhaul Kit |                          |             |               |                |                  |
|--------------------------|--------------------------|-------------|--------------------------|--------------------------|-------------|---------------|----------------|------------------|
| Applicable Engine Model  | Applicable Machine Model |             | Applicable Engine Model  | Applicable Machine Model |             |               |                |                  |
| SAA4D107E-1              | PC160LC-8                | D39EX-22    | SAA6D107E-1              | WA320PZ-6                | PC200-8M0   | PC220LC-8M0   | PC270-8        | WA250PZ-6        |
|                          | PC190LC                  | D39PX-22    |                          | BR380JG-1E0              | PC200LC-8   | PC228US-3E0   | PC270LC-8      | WA320-6 Highlift |
|                          | PC190NLC-8               | HB205-1     |                          | GD555-5                  | PC200LC-8M0 | PC228US-8     | PC270LC-8N1-W1 | WA320-6          |
|                          | PC200-8E0                | HB215LC-1   |                          | GD655-5                  | PC220-8     | PC228USLC-3E0 | PC308USLC-3E0  | WA380-6          |
|                          | PC200LC-8E0              | HB205-1M0   |                          | GD675-5                  | PC220-8M0   | PC228USLC-8   | SAA6D107E-1    | WA380Z-6         |
|                          | WA200-6                  | HB215LC-1M0 |                          | PC200-8                  | PC220LC-8   | PC240LC-8     | WA250-6        |                  |
|                          | WA200PZ-6                |             |                          |                          |             |               |                |                  |

### HYK-6751-D Engine Overhual Kit ▼



| Part No      | Description                 | Qty Per Engine | Unit   | Overhaul Kit Part No |                      |
|--------------|-----------------------------|----------------|--------|----------------------|----------------------|
| 6754-31-2111 | Piston                      | 4              | Pieces | 4D107 C Overhaul Kit | 4D107 D Overhaul Kit |
| 6754-31-2010 | Piston Ring Set             | 4              | Set    |                      |                      |
| 6754-31-2410 | Piston Pin                  | 4              | Pieces |                      |                      |
| 6754-29-2010 | Liner                       | 4              | Pieces |                      |                      |
| 6732-31-2420 | Piston Retainer             | 4              | Pair   |                      |                      |
| 6735-21-8100 | Main Bearing-Thrust Bearing | 1              | Set    |                      |                      |
| 6754-31-3411 | Conn Rod Bearing            | 1              | Set    |                      |                      |
| 6732-31-3132 | Conn Rod Sleeve             | 4              | Pieces |                      |                      |
| 6751-K1-1100 | Gasket Kit-K1               | 1              | Set    |                      |                      |
| 6751-K2-1100 | Gasket Kit-K2               | 1              | Set    |                      |                      |
| 6754-41-4110 | Inlet Valve                 | 8              | Pieces | Hatched Area         |                      |
| 6754-41-4210 | Exhaust Valve               | 8              | Pieces |                      |                      |
| 6754-11-1170 | Insert-Inlet Valve          | 8              | Pieces |                      |                      |
| 6754-11-1180 | Insert-Exhaust Valve        | 8              | Pieces |                      |                      |
| 6754-11-1310 | Valve Guide                 | 16             | Pieces |                      |                      |
| 6744-11-1020 | Clip-Valve                  | 32             | Pieces |                      |                      |

### HYK-6754-D Engine Overhual Kit ▼



| Part No      | Description                 | Qty Per Engine | Unit   | Overhaul Kit Part No |                      |
|--------------|-----------------------------|----------------|--------|----------------------|----------------------|
| 6754-31-2111 | Piston                      | 6              | Pieces | 6D107 C Overhaul Kit | 6D107 D Overhaul Kit |
| 6754-31-2010 | Piston Ring Set             | 6              | Set    |                      |                      |
| 6754-31-2410 | Piston Pin                  | 6              | Pieces |                      |                      |
| 6754-29-2010 | Liner                       | 6              | Pieces |                      |                      |
| 6732-31-2420 | Piston Retainer             | 6              | Pair   |                      |                      |
| 6735-21-8100 | Main Bearing-Thrust Bearing | 1              | Set    |                      |                      |
| 6754-31-3411 | Conn Rod Bearing            | 1              | Set    |                      |                      |
| 6732-31-3132 | Conn Rod Sleeve             | 6              | Pieces |                      |                      |
| 6754-K1-9900 | Gasket Kit-K1               | 1              | Set    |                      |                      |
| 6754-K2-9900 | Gasket Kit-K2               | 1              | Set    |                      |                      |
| 6754-41-4110 | Inlet Valve                 | 12             | Pieces | Hatched Area         |                      |
| 6754-41-4210 | Exhaust Valve               | 12             | Pieces |                      |                      |
| 6754-11-1170 | Insert-Inlet Valve          | 12             | Pieces |                      |                      |
| 6754-11-1180 | Insert-Exhaust Valve        | 12             | Pieces |                      |                      |
| 6754-11-1310 | Valve Guide                 | 24             | Pieces |                      |                      |
| 6744-11-1020 | Clip-Valve                  | 48             | Pieces |                      |                      |



6732-31-2420



6737-32-3121

# ACCESSORIES

# PART OF THE 6D107



6754-31-2410



6754-31-2010



6754-41-4420



6754-41-4210

6754-41-3110



6754-31-3411



6754-41-4510



6754-31-3411



6754-41-4110



6754-61-4110C



6754-61-6220



6754-11-1310



# 6D107

## WE ALSO SUPPLY

Engine Block, Cylinder Head, Crankshaft, Turbocharger, Fuel System, Electric System, Overhaul Kits

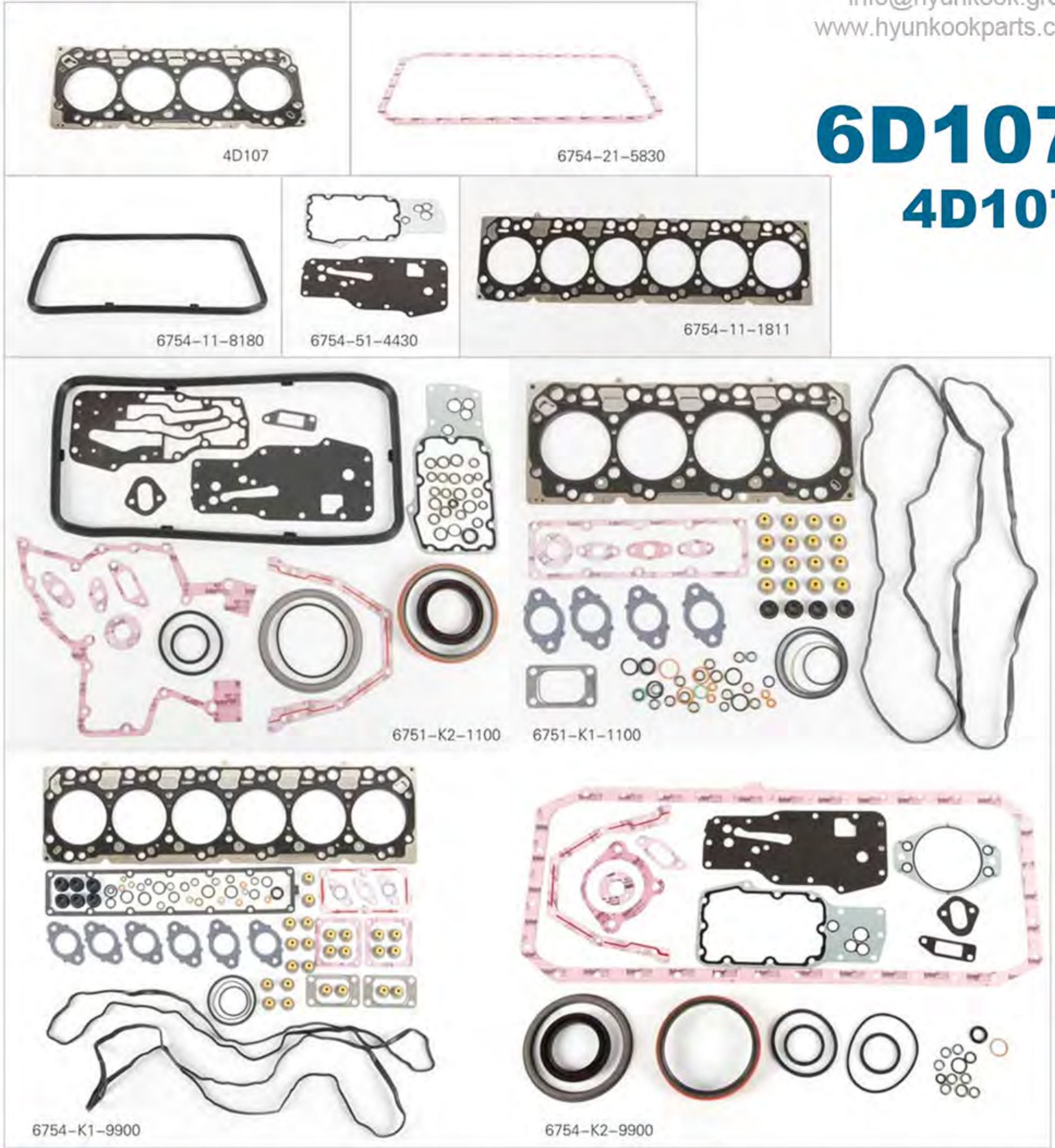


OEM Factory For

Caterpillar, Komatsu, Cummins, Detroit Diesel, Macbee, CPT, FP, KMP  
 Agricultural Equipment – Perkins, John Deere, Case IH, Ford



# 6D107 4D107



**OEM Factory For**

Caterpillar, Komatsu, Cummins, Detroit Diesel, Macbee, CPT, FP, KMP  
Agricultural Equipment – Perkins, John Deere, Case IH, Ford

## FIT KOMATSU 6D125 ENGINE OVERHUAL KIT

| 6251 Engine Overhaul Kit |                          |             |              |               |            |
|--------------------------|--------------------------|-------------|--------------|---------------|------------|
| Applicable Engine Model  | Applicable Machine Model |             |              |               |            |
| SAA6D125E-5              | BR580JG-1                | HM250-2     | PC400LCSE-8R | PC450LC-7K-E0 | WA470-6 LC |
|                          | D85EX-15E0               | HM300-2     | PC450-7E0    | PC450LC-8     | WA480-6    |
|                          | D85EX-15R                | PC400-8     | PC450-7K-E0  | PC450LCHD-8   | WA480-6 LC |
|                          | D85PX-15E0               | PC400-8R    | PC450-8      | PC550LC-8     |            |
|                          | D85PX-15R                | PC400LC-7E0 | PC450-8R     | WA450-6       |            |
|                          | GD755-5R                 | PC400LC-8   | PC450LC-7E0  | WA470-6       |            |

| 6154 Engine Overhaul Kit |                          |           |          |             |           |           |           |         |
|--------------------------|--------------------------|-----------|----------|-------------|-----------|-----------|-----------|---------|
| Applicable Engine Model  | Applicable Machine Model |           |          |             |           |           |           |         |
| SAA6D125E-2              | BR200T-1                 | D65PX-12U | D85EX-15 | DCA-300SSK  | GH320-3   | PC400-7   | PC450LC-6 | WA470-5 |
|                          | BR480RG-1                | D65PX-15  | D85MS-15 | EG300BS-5   | HD255-5   | PC400LC-6 | PC450LC-7 | WA480-5 |
| SAA6D125E-3              | BR500JG-1                | D65WX-15  | D85P-21  | EGS360      | HD255-5EO | PC400LC-7 | PW400MH-6 |         |
|                          | BR550JG-1                | D85A-21   | D85PX-15 | GD705A-4A-N | HM300-1   | PC400ST-6 | WA450-3   |         |
|                          | D65EX-12U                | D85C-21   | D87E-2   | GD755-3     | HM300TN-1 | PC450-6   | WA450-5   |         |
|                          | D65EX-15                 | D85E-21   | D87P-2   | GH320-2     | PC400-6   | PC450-7   | WA470-3   |         |

### HYK-6154-C Engine Overhaul Kit



| Part No       | Description          | Qty Per Engine | Unit   | Overhaul Kit Part No |
|---------------|----------------------|----------------|--------|----------------------|
| 6152-32-2510  | Piston               | 6              | Pieces | 6154 C Overhaul Kit  |
| 6154-31-2030  | Piston Ring Set      | 6              | Set    |                      |
| 6151-31-2410  | Piston Pin           | 6              | Pieces |                      |
| 6151-22-2220  | Liner                | 6              | Pieces |                      |
| 04065-04818   | Piston Retainer      | 12             | Pieces |                      |
| 6150-21-8010  | Main Bearing Set     | 1              | Set    |                      |
| 6150-21-8050  | Thrust Plate         | 1              | Set    |                      |
| 6151-31-3050  | Conn Rod Bearing     | 1              | Set    |                      |
| 6150-31-3130  | Conn Rod Sleeve      | 6              | Pieces |                      |
| 6159-K1-9900  | Gasket Kit-K1        | 1              | Set    |                      |
| 6159-K2-9900  | Gasket Kit-K2        | 1              | Set    |                      |
| 6150-42-4110  | Inlet Valve          | 12             | Pieces |                      |
| 6150-42-4210  | Exhaust Valve        | 12             | Pieces |                      |
| 6151-11-1330  | Insert-Inlet Valve   | 12             | Pieces |                      |
| 6150-11-1320A | Insert-Exhaust Valve | 12             | Pieces |                      |
| 6150-12-1370A | Valve Guide          | 24             | Pieces |                      |

### HYK-6154-D Engine Overhaul Kit



OEM Factory For

Caterpillar, Komatsu, Cummins, Detroit Diesel, Macbee, CPT, FP, KMP  
 Agricultural Equipment – Perkins, John Deere, Case IH, Ford

## HYK-6251-C Engine Overhaul Kit ▼



| Part No      | Description          | Qty Per Engine | Unit   | Overhaul Kit Part No |                     |
|--------------|----------------------|----------------|--------|----------------------|---------------------|
| 6251-31-2510 | Piston               | 6              | Pieces | 6251 C Overhaul Kit  | 6251 D Overhaul Kit |
| 6251-31-2030 | Piston Ring Set      | 6              | Set    |                      |                     |
| 6151-31-2410 | Piston Pin           | 6              | Pieces |                      |                     |
| 6151-22-2220 | Liner                | 6              | Pieces |                      |                     |
| 04065-04818  | Piston Retainer      | 12             | Pieces |                      |                     |
| 6150-21-8010 | Main Bearing Set     | 1              | Set    |                      |                     |
| 6150-21-8050 | Thrust Plate         | 1              | Set    |                      |                     |
| 6151-31-3040 | Conn Rod Bearing     | 1              | Set    |                      |                     |
| 6150-31-3130 | Conn Rod Sleeve      | 6              | Pieces |                      |                     |
| 6251-K1-9900 | Gasket Kit-K1        | 1              | Set    |                      |                     |
| 6251-K2-9900 | Gasket Kit-K2        | 1              | Set    | 6251 D Overhaul Kit  |                     |
| 6150-42-4110 | Inlet Valve          | 12             | Pieces |                      |                     |
| 6150-42-4210 | Exhaust Valve        | 12             | Pieces |                      |                     |
| 6151-11-1330 | Insert-Inlet Valve   | 12             | Pieces |                      |                     |
| 6150-11-1320 | Insert-Exhaust Valve | 12             | Pieces |                      |                     |
| 6150-12-1370 | Valve Guide          | 24             | Pieces |                      |                     |

## HYK-6251-D Engine Overhaul Kit ▼



# PART OF THE ACCESSORIES

## CYLINDER LINER

Cylinder liner surface:

Scanning electron micrograph of the polished surface

Cave erosion:

Instantaneous high-pressure bubbles generated when the water on the outer wall of the cylinder liner contacts the high-temperature cylinder liner, under the high frequency vibration of the engine, the cylinder liner is struck violently, so that the atom on the surface of the cylinder liner is separated, in the long run, small pits and trachoma are gradually formed on the surface of the cylinder liner.

Measuring:

The cylinder liner test is performed according to the engine block, and the inner diameter of the cylinder liner, the amount of protrusion of the cylinder sleeve, the out-of-roundness, and the taper are measured.

Grinding:

The tool is used to take reciprocating and rotating motions. In this way, the cylinder produces an error of less than 10 μm and can achieve average surface roughness.





6151-22-2220



**PISTON**

For engine life requirements for heavy equipment, and for engines of different powers and models, Kyotechs developed a variety of pistons to respond to the aftermarket.

Aluminum pistons with ring-shaped cooling ring grooves have been widely used. Faced with increasing demands, Faced with higher and higher requirements, Kyotechs NIHR (high temperature resistant nano-scale aluminum-silicon alloy) technology has made major breakthroughs in alloy specific gravity, coefficient of linear expansion, and wear resistance, and can withstand higher heat load and electric fire pressure.

Nowadays, the use of articulated structures and steel pistons using friction welding technology allows for a further reduction in the weight of steel pistons. This new solution is increasingly used on high power engines.



6152-32-2510



6251-31-2510



**STEEL PISTON USING FRICTION WELDING TECHNOLOGY**

With friction welded pistons, the top of the piston has better strength and can effectively reduce the overall weight and volume of the piston. We need to solve the thermal expansion coefficient caused by different materials of the head and skirt. Also, a higher processing process is required.



**STEEL PISTON AND ALUMINUM PISTON**

Advantages of steel pistons: The same weight steel piston can reduce the volume by 30%. High strength, small volume, high temperature resistance;  
 Advantages of aluminum piston: light weight; low price and improved engine efficiency.



|              |              |              |  |
|--------------|--------------|--------------|--|
| 6150-42-4110 | 6150-42-4210 | 6150-12-1370 | 6150-11-1320   |
| 6136-11-1130 | 6150-41-4510 | 6150-41-4411 | 6150-41-4420   |
| 6150-41-4430 | 6154-21-1810 | 6150-31-3130 | 6150-31-3310   |
| 6150-21-1490 | 6151-31-3050 | 6150-21-8050 | <p><b>WE ALSO SUPPLY</b></p> <p>Engine Block, Cylinder Head, Crankshaft, Turbocharger, Fuel System, Electric System, Overhaul Kits</p> |

|              |              |              |
|--------------|--------------|--------------|
| 6251-51-1001 | 6154-61-1102 | 6151-21-4160 |
|              |              | 6150-21-3230 |

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| 208-03-71331 | 6156-11-4480 | 6156-11-4470 | 208-03-76630 |
| 208-01-72161 | 208-03-75481 | 208-03-71321 | 208-03-75470 |
|              |              |              | 04121-32264  |

