



Sourcing & Service

KOMATSU

PISTONS / CYLINDERS / KIT SETS



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1. Design feature of Pistons



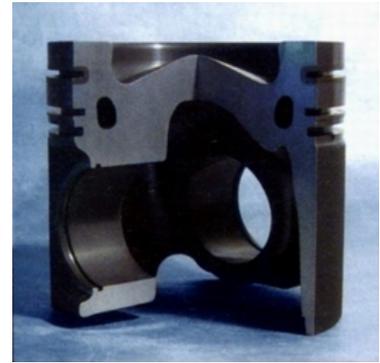
Cast Piston

Distinguish itself with a long operating life and economic viability for gasoline and diesel engines. In this piston, the piston crown, ring zone and skirt make a robust unit. Therefore the possibilities for use range from a small to a large engine



Al-fin Piston

Have a ring carrier made of special cast iron which is cast into piston. This provides protection to the top ring groove from the wear and tear which diesel engines in particular are subjected to. This design is used to increase the loads to which the pin boss can be subjected.



Al-fin & cooling gallery piston

The piston is used in situations in which particularly high operating temperatures occur. In order to reduce the high temperatures—which are caused by the increased performance—in the piston crown and in the ring area, intensive cooling is done by circulating oil in the cooling gallery.



Al-fin, cooling gallery & head anodized piston

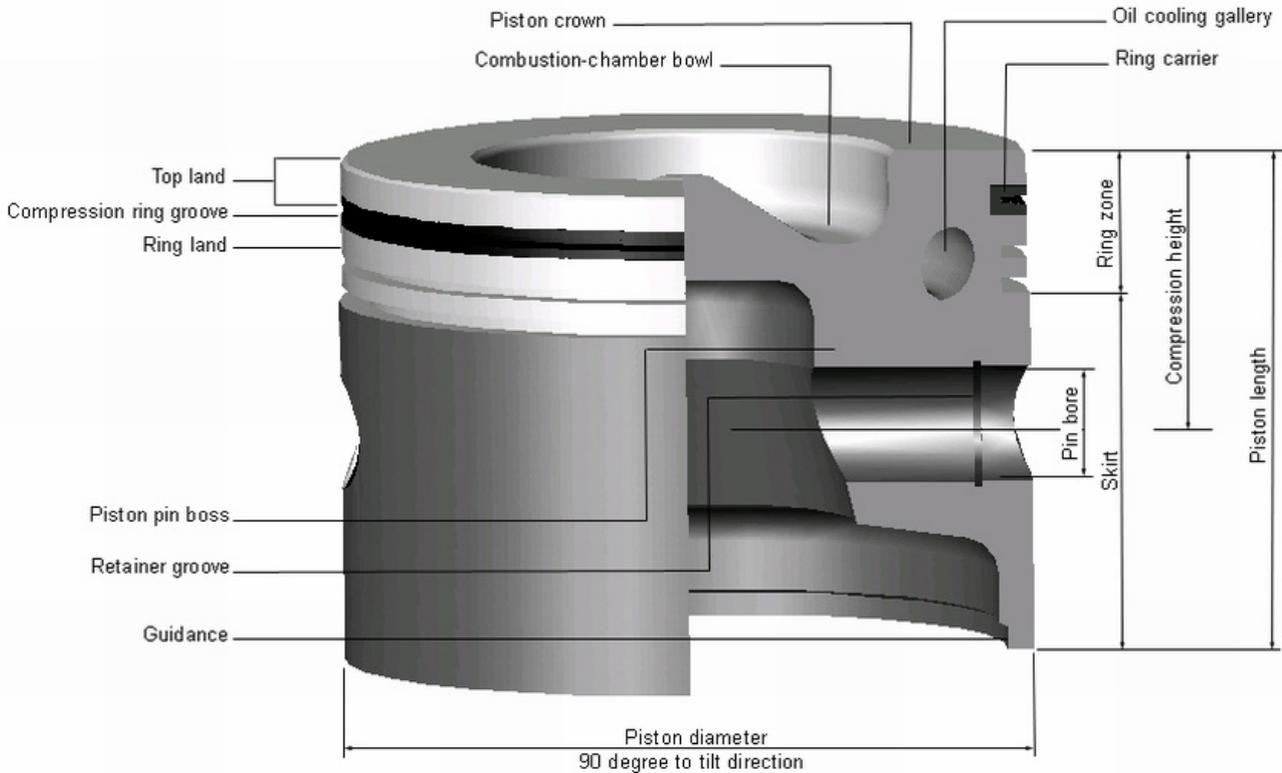
This design is used for highly loaded diesel engines. For additional protection and in order to avoid cracking in the combustion chamber and the crown, the piston has a special hard anodized layer on the piston crown. (Head anodized)



Two pieces piston

Consist of a steel piston head and an aluminum piston skirt which have a moveable connection to each other via the piston pin. Due to great strength and low wear and tear, it is possible to achieve low exhaust emission values for diesel engines that are subjected to particularly high loads.

2. Technical Terms of the piston



Fitting recommendation

Shrink fit

Assembling pistons and pins with shrink fit in the con rod requires the greatest of care. It is particularly important that there is freedom of movement between piston and pin after assembly.

Floating pin

For pistons with floating pins, the enclosed circlips serve to fix the piston in the piston pin bore. The circlips must be mounted with a suitable tool. When this is done it should be ensured that the circlips fit completely into the slot for which they are intended and that the impact is always in the stroke direction of the piston.

Never use old circlips and avoid pressing them together too much, otherwise permanent deformations can result.

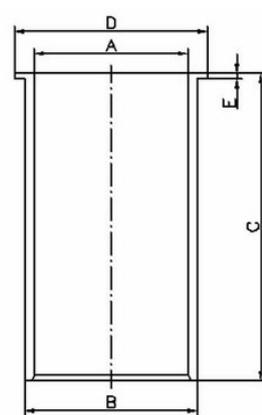
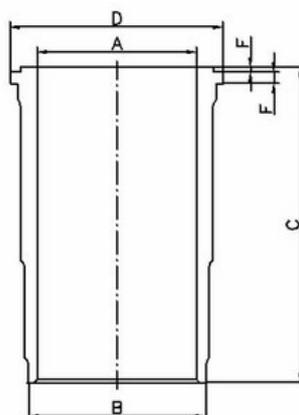
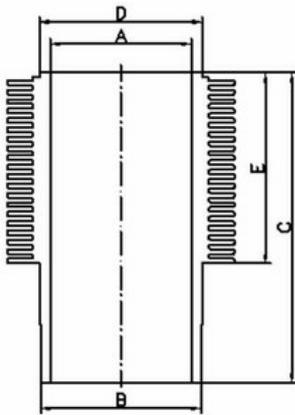
Installation of the piston

When the piston is installed, the installation direction must be observed. The impacts on the individual piston rings are to be distributed evenly across their circumference. The pin locking device is to be installed in such a way that the impact is at the top or the bottom. The cylinder bore or the pistons and the rings must be oiled.

In order to avoid damage when the piston is being fitted in the cylinder bore, a suitable tool is to be used for assembly.

In the case of Diesel engines, the clearance must be measured and the relevant instructions from the engine manufacturer must be followed. The part of the engine (cylinder block, crankshaft, con rod and pil pan) must be cleaned carefully before assembly to remove machining residues and deposits.

3. Types and technical terms of the cylinder liner



Main dimensions

- A = maximum finished diameter for pre-machined liners(Fully-finished)
- B = Fitting diameter
- C =Total length
- D =Flange diameter
- E =Flange height
- F =Fire protection rim height

Fitting recommendation

Wet cylinder liners



The location bores and particularly the running surfaces in the cylinder block must be cleaned carefully, and they must be undamaged. Corroded surfaces must be reworked (use flange liners and outer diameter oversize liners). As this is done, make sure that the liners move in easily and that they take up the correct position (the projecting length of the liner must be in accordance with the regulations of the engine manufacturer). After the liner has been installed with the seal rings that belong to it (use slip agent), the cylinder diameter is to be checked—particularly in the region of seal rings—so as to determine whether any deformation has been caused by pinched sealing rings. Using the wrong sealing rings (wrong diameter/wrong material) can cause a narrowing of the cylinder, which can lead to engine damage. The cooling system should be pressure tested after the liners have been installed, so as to determine whether there is any leakage before the engine is started.

Semi-finished cylinder liners



The surface which supports the flange must be vertical to the location bore and it must be sufficiently and evenly beveled. If the liner flange is unevenly supported it can tear off. After the installation of the liner, which is only semi-finished in its inside diameter, this cylinder boring is finely bored and then finished by honing until it has the specified dimensions or, in the case of finely bored liner, it is only finished by honing (tolerance accordingly to DIN/ISO H5). The surface of the liner must be flush to the sealing surface of the cylinder block; if necessary, the block surface and the liner must be finished by surface grinding.

Finished cylinder liners



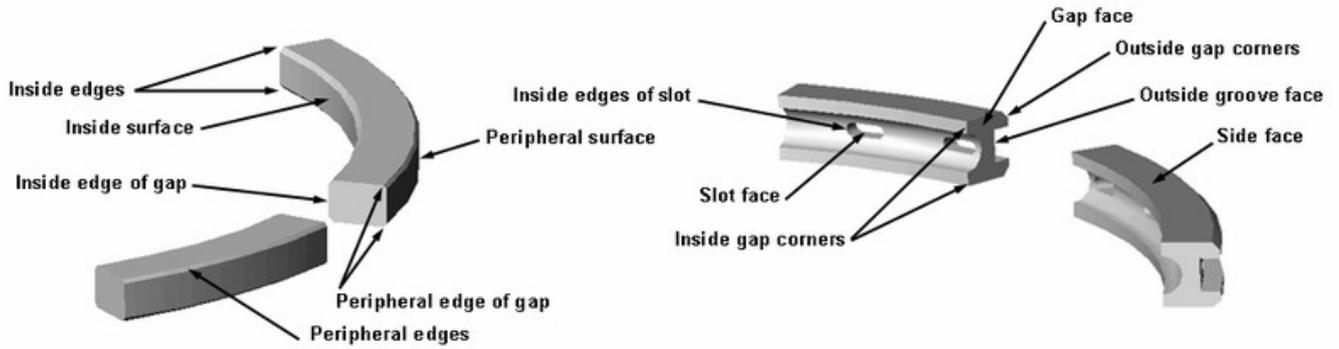
Before the liner is installed, the locating bore in the cylinder block must be cleaned carefully, and must be checked to ensure the accuracy of the dimensions and to determine whether any distortion has occurred. Out-of-center or damaged bores can be reworked for the installation of oversize liners. It is important for this that the locating bore is cylindrical, as this is what determines the geometrical shape of the inside of the pressed-in, thin-walled liner.

Finned cylinders



In accordance with the instructions from the engine manufacturer, cast iron cylinders or light alloy cylinders are used. Light alloy cylinders are separated into several groups due to the small installation clearance in the standard cylinder dimensions.

4. Types and technical terms of the piston ring



Cross-section configurations

Sealing rings



Barrel-faced ring



Rectangular ring



Taper-faced ring



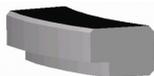
Half keystone ring



Keystone ring



Napier ring



Scraper ring(Stepped)

Oil control rings



Bevelled edge oil control ring



Coil spring loaded beveled edge
oil control ring



Steel-rail oil control ring
(multi piece)

Liner Kit For KOMATSU

For better retrieve of necessary spare parts in engine rebuilding, We suggest our remarkable clients & engineers to apply the Liner Kit in gaining best fitting & tuning. The liner kit includes the following important & useful components:

1. Piston Body
2. Piston Pin
3. Pin Bushing
4. Pin Retainer
5. Piston Ring
6. Cylinder Liner
7. Liner O-Ring & Seal (Wet Liner only).



ENGINES INDEX



Bore Dia.	Engine Code	REO PistonNo.	Piston OE No.				Remark
92mm	4D92	3P92F01					
94mm	4D94E/4TNV94	3P94F01	129901-22081				
	4D94E/4TNV94L	3P94F02	129906-22080	129906-22010			○48
	4D94	3P94F03	6142-31-2111				
95mm	4D95L-W-1	3P95F01	6204-32-2161	6202-33-2120	6204-33-2151		
	4D95S-1H,IJ	3P95F02	6202-33-2160	6204-32-2111	6202-32-2121		○51
	4D95S-W-1G-E	3P95F03	6202-32-2140	6201-32-2121			
	4D95L-1K,1L	3P95F04	6204-31-2121				○54
	S4D95L-1A,AB,AG	3P95F05	6207-31-2141				○56
	SAA4D95LE	3P95F06	6208-31-2110				○50
	S4D95L-1N	3P95F07	6207-31-2121				○56
	4D95S-1J-T	3P95F08	6206-33-2140				○54
	6D95L-1AA-	3A95S01	6204-31-2121				○54
	S6D95L-1	3A95S02	6207-31-2141				○56
	S6D95L-1	3A95S03	6207-31-2180				○56
	S6D95L-1NN	3A95S04	6207-31-2121				○56
	6D95L-1AC	3A95S06	6206-33-2140	6201-32-2121			
	6D95L-1	3A95S07	6204-31-2121				○54
	6D95L-1AC	3A95S08	6206-33-2140				○54
	6D95	3A95S09	6204-31-2190				○50
	S6D95L-1W	3A95S10	6207-31-2120				○56.2
	SA6D95L-1C	3A95S11	6209-31-2141				○56
	SA6D95L-1J	3A95S12	6209-31-2180				○56
	SAA6D95LE	3A95S13	6208-31-2110				○50
102mm	S4D102E-1	3P02F01	6735-31-2111				○51
	S6D102E-1AB	3P02S01	6735-31-2111				○51
105mm	4D105-3C	3P05F01	6130-32-2110				○60
	4D105-5H,5J,5T	3P05F02	6136-32-2110	6136-32-2010			○58
	S4D105-5A/B	3P05F03	6137-32-2110	6137-32-2010			○59
	S4D105-3	3P05F04	6131-32-2120				○60
	6D105-1	3P05S01	6136-31-2112	6136-31-2012	6136-31-2010		□49
	S6D105-1	3P05S02	6137-32-2130	6137-32-2030			○60
	S6D105-5	3P05S03	6137-31-2020	6137-31-2120	6137-31-2110		□54
	6D105-1	3P05S04	6136-32-2110				○58
107mm	SAA6D107E-1	3P07S01	6754-31-2110				○51
108mm	SA6D108-1	3P08S01	6222-31-2110				○66
	SAA6D108E-2A	3P08S02	6222-33-2110				○51
110mm	S6D110-1C	3P10S01	6138-31-2110	6138-31-2010			□62
	S6D110-1C/1G/1N/1P	3P10S02	6138-32-2110	6138-32-2010			○62
	SA6D110-1J1Q/1R/1U/1W	3P10S03	6138-32-2120	6138-32-2020			○66
114mm	SA6D114E-2	3P14S01	6743-31-2110	6743-31-2100	3917707	3802263	○55
120mm	4D120	3A20F01	6110-33-2132				
125mm	6D125-1	3A25S01	6150-31-2112	6150-31-2012			○75
	S6D125-1	3A25S02	6151-31-2171	6151-31-2150	6151-31-2071	6151-31-2060	○75
	S6D125	3A25S03	6151-31-2112				○75
	S6D125 New	3A25S04	6151-31-2511	6151-31-2170	6151-31-2710		○75
	S6D125E-2	3A25S05	6152-32-2510	6152-32-2511			○63
	6D125E-2,S6D125E-2	3A25S06	6151-32-2110				○66.5
	6D125E-2	3A25S07	6150-32-2110				○62

ENGINES INDEX

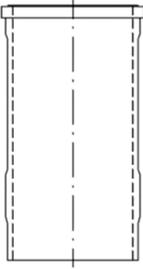
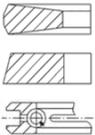


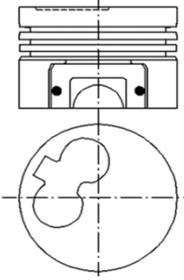
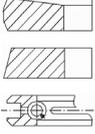
Bore Dia.	Engine Code	REO PistonNo.	Piston OE No.				Remark
125mm	SAA6D125E-5	3A25S08	6251-31-2510	6251-31-2110			○63
130mm	4D130-1	3P30S01	6114-31-2111				○63
130.18mm	NH220-C1	3P31S01	6620-31-2110				○99
139.7mm	NT855-1	3A39S01	3048808				○105
	NT855	3A39S02	215420				○97.5
140mm	S6D140	3P40S01	6211-31-2111	6211-32-2110			○92
	SA6D140-1	3P40S02	6212-31-2170	6211-31-2410	6212-31-2110	6211-31-2130	○92
	S6D140-1	3P40S03	6212-31-2151	6212-31-2130	6211-32-2130		○78
	SA6D140-E3	3P40S04	6217-31-2130				○76.7
	SAA6D140E-5	3P40S05	6261-31-2130				○76.7
155mm	S6D155-4	3P55S01	6127-31-2140				○131
	SA6D155-4	3P55S02	6128-31-2140				○124
170mm	SA8V170-1	3P70S01	6164-31-2110				○122
	S6D170-1	3P70S02	6162-33-2120				○112
	SA6D170-1	3P70S03	6162-33-2140				○122
	SA6D170E-2	3P70S04	6162-35-2120				○118
	SA6D170E-3	3P70S05	6240-31-2111				○122
	SAA6D170E-5	3P70S06	6245-31-2110				○83/146

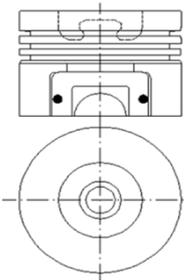
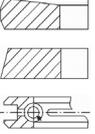
4 cyls.	5 cyls.	6 cyls.	8 cyls.	10 cyls.
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Liner Kit For KOMATSU Applications



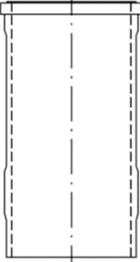
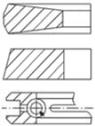
<p><u>Engine</u> 4D92-1A 4D92-1B 4 cyl.,2610m³,Crawler Loader:D20A-3,D21P-3,D20PN-3,D21P-3,D21A-3</p> <p><u>Bore</u> 92.0mm</p> <p><u>Remark</u> Piston : Non-Alfin. 47mm round chamber Liner : F/F.</p>	<p>3A92F01 KMKT4011130</p> <p>3L92F01 6140-21-2211 6140-21-2210</p> <p><u>Cylinder Liner</u>  Total Length: 185.0mm Outer Length: 106.0mm Diameter: 115.0mm Flange Diameter: 10.0mm Height: 1.0mm</p>	<p>3P92F01 6140-31-2113 6140-31-2011 6140-31-2010</p> <p><u>Piston</u> Total Length: 99.0mm Comp. Height : 59.0mm</p> <p><u>Piston Pin</u> Diameter: 32.0mm Length: 74.0mm</p>	<p>3B92F01 6140-31-3131</p> <p><u>Piston Ring</u> </p>	<p>3R92F01 6141-31-2020 6140-31-2040</p>
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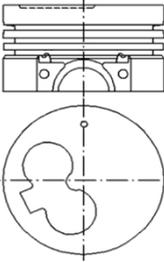
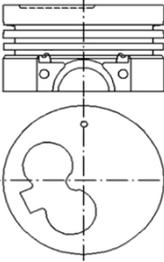
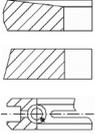
<p><u>Engine</u> 4D94E 4TNV94 (Yanmar) 4 cyl.,2940m³ , Crawler Dozer:D21A-8,D21P-8</p> <p><u>Bore</u> 94.0mm</p> <p><u>Remark</u> Piston : Al-fin. Liner : S/F.</p>	<p>3A94F01</p> <p>3L94F01</p> <p><u>Cylinder Liner</u>  Total Length: 187.0mm Outer Length: 96.1mm Diameter:</p>	<p>3P94F01-A 129901-22081</p> <p><u>Piston</u> Total Length: 103.7mm Comp. Height : 59.7mm</p> <p><u>Piston Pin</u> Diameter: 30.0mm Length: 73.0mm</p> 	<p>3B94F01 129900-23911</p> <p><u>Piston Ring</u> </p>	<p>3R94F01 YM129901-22050</p>
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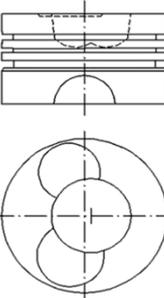
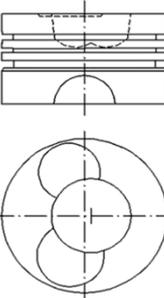
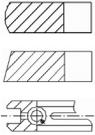
<p><u>Engine</u> 4D94E 4TNV94L (Yanmar) 4 cyl.,2940m³</p> <p><u>Bore</u> 94.0mm</p> <p><u>Remark</u> Piston : Al-fin.Nature Color,Round Combustion Chamber 48mm Liner : S/F.</p>	<p>3A94F02</p> <p>3L94F01</p> <p><u>Cylinder Liner</u>  Total Length: 187.0mm Outer Length: 96.1mm Diameter:</p>	<p>3P94F02-A 129906-22080 (W/Ring) 129906-22010</p> <p><u>Piston</u> Total Length: 98.7mm Comp. Height : 54.8mm</p> <p><u>Piston Pin</u> Diameter: 30.0mm Length: 73.0mm</p> 	<p>3B94F01 129900-23911</p> <p><u>Piston Ring</u> </p>	<p>3R94F01 YM129901-22050</p>
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Liner Kit For KOMATSU Applications



<p><u>Engine</u> 4D94</p> <p><u>Bore</u> 94.0mm</p> <p>4 cyl.,2940m³, Crawler Loader:D20A-3,D21S-3</p> <p><u>Remark</u> Piston : Non-Alfin. Liner : F/F.</p>	<p>3A92F03</p> 	<p>3L92F02 6144-21-2211</p> <p><u>Cylinder Liner</u></p> <p>Total Length: 181.0mm Outer Diameter: 108.0mm Flange Diameter: 117.0mm Flange Diameter: 10.0mm Height: 1.0mm</p>	<p>3P92F03 6142-31-2111</p> <p><u>Piston</u></p> <p>Total Length: 99.3mm Comp. Height : 55.3mm</p> <p><u>Piston Pin</u></p> <p>Diameter: 32.0mm Length: 74.0mm</p>	<p>3B92F01</p> 	<p>3R92F02 6142-32-2020 6142-32-2030</p> <p><u>Piston Ring</u></p> 
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<p><u>Engine</u> 4D95L-W-1A,1B ,1B-WR 4D95L-1C,4D95L-D,4D95L-1E</p> <p><u>Bore</u> 95.0mm</p> <p>4 cyl., m³ Powder Generator : EG33-1,EG33B-1,EG33BS-1 Loader: WA40-1,WA70-1,WA80-6,WR8-1</p> <p><u>Remark</u> Piston : Al-fin. Liner : Fully-Finished & Phosphated .</p>	<p>3A95F01 KMKT0411610</p> 	<p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p> <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95F01-A 6204-32-2161 (Piston Body) 6202-32-2120 6204-32-2151</p> <p><u>Piston</u></p> <p>TL 94.1mm CH 51.1mm -19.5</p> <p><u>Piston Pin</u></p> <p>OD 30.0mm TL 74.0mm</p> 	<p>3B95S01 6204-31-3130</p> 	<p>3R95F01 6202-32-2202/cyl. 6202-32-2200</p> <p><u>Piston Ring</u></p> <p>2.2 HK 2 FM 4.0</p> 
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<p><u>Engine</u> 4D95S-1H 4D95S-1D,4D95S-IJ</p> <p><u>Bore</u> 95.0mm</p> <p>4 cyl.,3260m³ Dozer:D20P-7A,D20PG-7A,D20PL-7,D21A-7,D21AG-7,D21PG-7A,D21QG-7,D21S-7 Loader : WA50-1</p> <p><u>Remark</u> Piston : Al-fin. Round Combustion Chamber 51mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95F02 KMKT0211600</p> 	<p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p> <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3A95F02-A 6202-33-2160 (Piston Body) 6204-32-2111 6202-32-2121</p> <p><u>Piston</u></p> <p>TL 104.3mm CH 61.3mm</p> <p><u>Piston Pin</u></p> <p>OD 30.0mm TL 74.0mm</p> 	<p>3B95S01 6204-31-3130</p> 	<p>3R95S01 6204-31-2202 6204-31-2201/cyl.</p> <p><u>Piston Ring</u></p> <p>2 2 FM 4.0</p> 
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Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.2

Liner Kit For KOMATSU Applications



<p><u>Engine</u></p> <p>4D95S-W-1G-A/E/P/S/Q</p> <p>4D95S-W-1F-A/AP/S/T/Q</p> <p>4 cyl.,3260m³</p> <p>Dozer:D20P-6,D20P-6A,D20Q-6,D20S-6,D21P-6,D21P-6A,D20PL-6,D20PLL-6,D21PL-6,D21A-6,D21E-6,D21P-6B,D21S-6,D21S-6A</p> <p><u>Remark</u></p> <p>Piston : Al-fin. Liner : Fully-Finished & Phosphated .</p>	<p><u>Bore</u></p> <p>95.0mm</p>	<p>3A95F03</p> <p>KMKT 211400</p>	<p>3L95S01-FP</p> <p>6207-21-2110</p> <p>6207-21-2120</p> <p>6207-21-2121</p>	<p>3A95F03-A</p> <p>6202-32-2140</p> <p>(Piston Body)</p> <p>6201-32-2121</p>	<p>3B95S01</p> <p>6204-31-3130</p>	<p>3R95F02</p> <p>6202-32-2300/cyl.</p>

<p><u>Engine</u></p> <p>4D95L-1K,1L</p> <p>4D95L-1C/G/H/J/P/Z/1Q-B</p> <p>4 cyl.,3260m³</p> <p>Excavator:PC60-3,PW60-3,PC60-5,PC60U-5,PC75UU-1,PC80-3 Generator : EG40BS,EG40B-1,EG40BS-1,EG40-1,EC75ZS-3,EC75Z-3,</p> <p><u>Remark</u></p> <p>Piston : Al-fin. Round Combustion Chamber 54mm Liner : Fully-Finished & Phosphated .</p>	<p><u>Bore</u></p> <p>95.0mm</p>	<p>3A95F04</p> <p>KMKT0421210</p>	<p>3L95S01-FP</p> <p>6207-21-2110</p> <p>6207-21-2120</p> <p>6207-21-2121</p>	<p>3P95F04-A</p> <p>6204-31-2121</p> <p>(Piston Body)</p>	<p>3B95S01</p> <p>6204-31-3130</p>	<p>3R95S01</p> <p>6204-31-2202</p> <p>6204-31-2201/cyl.</p>

<p><u>Engine</u></p> <p>4D95L-1G,H,C,K,E</p> <p>4D95L-1P/J/1Q-B</p> <p>4 cyl.,3260m³</p> <p>Excavator:PW60-3,PW60S-3,PC60U-5,PC60L-5,PC60-3.PC75UU-1,PC80-3,PC80LC-3 Air-compressor : EC75Z-3,EC75ZS-3 Generator:EG40B-1.EG40BS-1,</p> <p><u>Remark</u></p> <p>Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .</p>	<p><u>Bore</u></p> <p>95.0mm</p>	<p>3A95F05</p> <p>KMKT0711410</p>	<p>3L95S01-FP</p> <p>6207-21-2110</p> <p>6207-21-2120</p> <p>6207-21-2121</p>	<p>3P95F05-A</p> <p>6207-31-2141</p> <p>(Piston Body)</p>	<p>3B95S02</p> <p>6207-31-3130</p> <p>6207-31-3530</p> <p>6204-31-3130</p>	<p>3R95S02</p> <p>6207-31-2500</p> <p>6207-31-2501</p>

Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.3

Liner Kit For KOMATSU Applications



Engine	Bore	3A95F06	3L95S01-FP	3P95F06-A	3B95S02	3R95S02
SAA4D95LE 4 cyl.,3260m ³ ,Excavator:PC128UU-6,PC130-7,PC138USLC-2 ,Lift truck:FD40ZT-10,FD35T-10,FD40T-10,FD45T-10,FD50T-10 Dozer:D31EX-22 , D31PX-22 , D37EX-22 , D37PX-22 Remark Piston : Al-fin.Round Combustion Chamber 50mm Liner : Fully-Finished & Phosphated .	95.0mm	KMKT0811100	6207-21-2110 6207-21-2120 6207-21-2121	6208-31-2110 Piston TL 83.7mm CH 50.65mm -19.6mm Piston Pin OD 30.0mm TL 74.0mm	6207-31-3130 6207-31-3530 6204-31-3130	6208-31-2100 Piston Ring
S4D95L-1N,1L,1K-C,1K-S S4D95L-1K,S4D95L-1J-S,S4D95L-1M 4cyl.,4890m ³ Excavator: PC100N-6,PC128UU-1,PC120-6A,PC120-6S,PC130-6,PC100-6S,PC120-6,PC100L-6,PW130-6K Remark Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .	95.0mm	3A95F07	3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121	3P95F07-A 6207-31-2121 (Piston Body) Piston TL 94.2mm CH 51.2mm -19.6mm -0.90 Piston Pin OD 30.0mm TL 74.0mm	3B95S02 6207-31-3530	3R95S02 6207-31-2500 Piston Ring
4D95L-1J-T 4D95L-1FF/EE/EE ,4D95LE-1A 4 cyl., m ³ Dozer :D21A-7,D21A-7T Excavator : PC60-6,PC60L-6,PC60-6C,PC60-6S,PC60-6Z,PC70-6S,PC75UU-2,PC75UD-2Z Road Roller :JV100-2T Remark Piston : Round Combustion Chamber 54mm Liner : Fully-Finished & Phosphated .	95.0mm	3A95F08	3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121	3P95F08 6206-33-2140 Piston TL 94.4mm CH 51.3mm Piston Pin OD 30.0mm TL 74.0mm	3B95S01 6204-31-3130	3R95S01 6204-31-2202/3 6204-31-2201/cyl. Piston Ring 2 2 FM 4.0

Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.4

Liner Kit For KOMATSU Applications

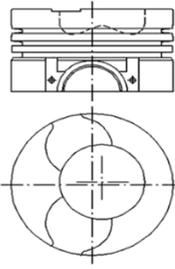
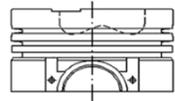
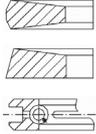


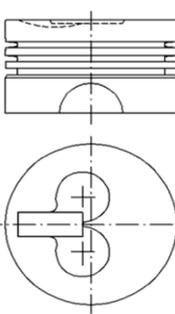
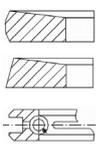
Engine	Bore	3A95S01	3L95S01-FP	3P95S01-A	3B95S01	3R95S01
6D95L-1AA- 6D95L-1A/B/C,6D95L-1U/V/W/PP 6 cyl.,4890m ³ Dozer:D31P-18,D31PLL-18,D31-PL-18 Excavator:PF3-1,PW60-1,PC100-3,PL100U-3,PC120-3,PW150-1 Loader:WR11-1,WR11SS-1,WA100-1,WA100SSS-1,WA120-1 Grader : GD305A,GD355A-1 Generator:EG60-1,EG60B-1,EG60BS-1 Remark Piston : Al-fin. Round Combustion Chamber 54mm Liner : Fully-Finished & Phosphated .	95.0mm	KMKT0421210	6207-21-2110 6207-21-2120 6207-21-2121	6204-31-2121 (Piston Body)	6204-31-3130	6204-31-2202 6204-31-2201/cyl.
			Cylinder Liner TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	Piston TL 94.1mm CH 51.3mm -18.8mm Piston Pin OD 30.0mm TL 74.0mm		Piston Ring 2 2 FM 4.0
6D95L-1AA/L/A/C/B/V/U S6D95-5,6D95L-1RR/1PP 6 cyl.,4890m ³ Excavator:PF3-1,PW150-1,PC100U-3,PC100L-3,PC100SS-3,PC100US-3,PC100-3,PC100S-3,PC120-3,PC120S-3,PC120SS-3 Dozer : D31P-18,D31PLL-18,D31S-18,D31Q-18,D31PL-18,D31P-18A Loader:WA100SSS-1,WA100-1,WA120-1,WR11-1,WR11SS-1 Grader:GD305A-1.GD355A-1 Generator:EG60-1 Remark Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .	95.0mm	KMKT0711410	6207-21-2110 6207-21-2120 6207-21-2121	6207-31-2141 (Piston Body)	6207-31-3130 6207-31-3530 6204-31-3130	6207-31-2500
			Cylinder Liner TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	Piston TL 94.1mm CH 51.2mm -19.6mm -0.90 Piston Pin OD 30.0mm TL 74.0mm		Piston Ring RN 2.5 K RN2.2 HK FM 4.0
SA6D95-6 SA6D95L-1MM-S,SA6D95L-1MM-C 6 cyl.,4890m ³ Excavator:PC200-6 ,PC200-6A, PC200-6H-A,PC200-6Z,PC200LC-6, PC200LC-6A,PC200LC-6H, PC200LC-6H-A,PC200LC-6Z,PC210-6 Remark Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .	95.0mm	KMKT0711800	6207-21-2110 6207-21-2120 6207-21-2121	6207-31-2180 (Piston Body)	6207-31-3530 6207-31-3130	6209-31-2400/Cyl.
			Cylinder Liner TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	Piston TL 94.1mm CH 51.2mm -19.6mm Piston Pin OD 30.0mm TL 74.0mm		Piston Ring

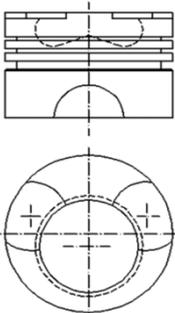
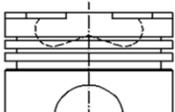
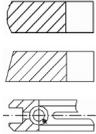
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.5

Liner Kit For KOMATSU Applications



<p><u>Engine</u> S6D95-5</p> <p><u>Bore</u> 95.0mm</p> <p>S6D95L-1NN,S6D95L-1PP 6 cyl.,4890m³ Excavator: PW130-6K Loader : WA150-3,WA180-3/3X,WA200-3 ,WA250-3/3X</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 56 mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95S04</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S04-A 6207-31-2121 (Piston Body)</p> <p><u>Piston</u> TL 94.2mm CH 51.2mm -19.6mm -0.90</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p> 	<p>3B95S02 6207-31-3530</p> 	<p>3R95S02 6207-31-2500</p> <p><u>Piston Ring</u></p> 
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<p><u>Engine</u> 6D95S-W-1G-E</p> <p><u>Bore</u> 95.0mm</p> <p>6 cyl., m³</p> <p><u>Remark</u> Piston : Al-fin. Liner : Fully-Finished & Phosphated .</p>	<p>3A95S05 KMKT 211400</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S06-A 6202-32-2140 (Piston Body) 6201-32-2121</p> <p><u>Piston</u> TL 104.1mm CH 61.0mm -3.6</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p> 	<p>3B95S01 6204-31-3130</p> 	<p>3R95F02 6202-32-2300/cyl.</p> <p><u>Piston Ring</u></p> <p>2.2 HK 2.2HK FM 4.0</p> 
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<p><u>Engine</u> 6D95L-1</p> <p><u>Bore</u> 95.0mm</p> <p>6 cyl., m³ Dozer :D31E-18,D31Q-18,D31P-18,D31S-18,D37E-2,E37E-P2,Excavator:PC100-3,PC100L-3,PC120-3,PW150-1,Loader : WA100-1/WA100-3,WA120-1</p> <p><u>Remark</u> Piston : Al-fin. Round Combustion Chamber 54mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95S07 KMKT0421210</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S07-A 6204-31-2121 (Piston Body)</p> <p><u>Piston</u> TL 94.4mm CH 51.3mm -18.8mm</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p> 	<p>3B95S01 6204-31-3130</p> 	<p>3R95S01 6204-31-2202/3 6204-31-2201/cyl.</p> <p><u>Piston Ring</u></p> <p>2 2 FM 4.0</p> 
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Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.6

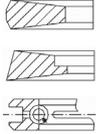
Liner Kit For KOMATSU Applications

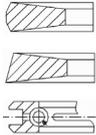


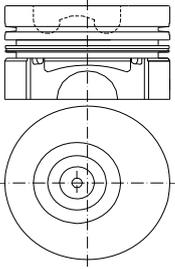
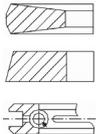
Engine	Bore	3A95S08	3L95S01-FP	3P95S08	3B95S01	3R95S01
6D95L-1AC 6D95L-1AD/1HH/1VV 6 cyl., m ³ Dozer : D31A-20,D31E-20,D31P-20,D31S-20,D31Q-20,D31PQ-20A,D31SM-20,D37E-S,D37P-5A Grader : GD305A-1,GD305A-1A Excavator : PC75UU-2	95.0mm	KMKT0631400	6207-21-2110 6207-21-2120 6207-21-2121	6206-33-2140	6204-31-3130	6204-31-2202/3 6204-31-2201/cyl.
<u>Remark</u> Piston : Round Combustion Chamber 54mm Liner : Fully-Finished & Phosphated .			<u>Cylinder Liner</u> TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	<u>Piston</u> TL 94.4mm CH 51.3mm <u>Piston Pin</u> OD 30.0mm TL 74.0mm	<u>Piston Ring</u> 2  2  FM 4.0 	
6D95 6 cyl., m ³	95.0mm	KMKT0411900	6207-21-2110 6207-21-2120 6207-21-2121	6204-31-2190	6204-31-3130	6204-31-2202 6204-31-2201/cyl.
<u>Remark</u> Piston : Round Combustion Chamber 50mm Liner : Fully-Finished & Phosphated .			<u>Cylinder Liner</u> TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	<u>Piston</u> TL 83.8mm CH 50.9mm <u>Piston Pin</u> OD 30.0mm TL 74.0mm	<u>Piston Ring</u> 2  2  FM 4.0 	
S6D95L-1W 6 cyl., 4,890m ³ Excavator : PC150-3,PC180LC-3,PC180LLC-3,PC180NLC-3,PW100-3 Grader : GD510R-1,GD511A-1 Loader : WA100-1,WA100-3	95.0mm	KMKT0711200	6207-21-2110 6207-21-2120 6207-21-2121	6207-31-2120	6207-31-3130 6207-31-3530 6204-31-3130	6207-31-2200
<u>Remark</u> Piston : Al-fin.Round Combustion Chamber 56.2mm Liner : Fully-Finished & Phosphated .			<u>Cylinder Liner</u> TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm	<u>Piston</u> TL 94.1mm CH 51.1mm <u>Piston Pin</u> OD 30.0mm TL 74.0mm	<u>Piston Ring</u>   	

Liner Kit For KOMATSU Applications



<p><u>Engine</u> SA6D95L-1C SA6D95L-1G 6 cyl., 4,890m³ Excavator : PC200-5/LC-5,PC220-5,PC220LC-5,PC220LC-5C</p> <p><u>Bore</u> 95.0mm</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95S11 KMKT0911410</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S11-A 6209-31-2141</p> <p><u>Piston</u> TL 94.2mm CH 51.2mm</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p>	<p>3B95S02 6207-31-3530 6207-31-3130</p>	<p>3R95S03 6209-31-2400/Cyl.</p> <p><u>Piston Ring</u></p> 
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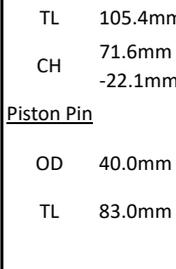
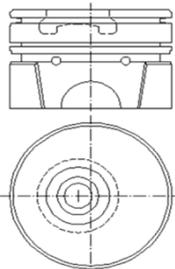
<p><u>Engine</u> SA6D95L-1J SAA6D95LE-1A-C,SAA6D95LE-1B 6 cyl., m³ PC200-6L/LC-6L,PC210LC-6,PC220-6,PC220LC-6,PC230-6,PC250LC-6,PC200-6Z,PC210-6</p> <p><u>Bore</u> 95.0mm</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 56mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95S12 KMKT0811100</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S12-A 6209-31-2180</p> <p><u>Piston</u> TL 94.2mm CH 51.2mm</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p>	<p>3B95S02 6207-31-3530 6207-31-3130</p>	<p>3R95S03 6209-31-2400/Cyl. SDK04-023ZZ</p> <p><u>Piston Ring</u></p> 
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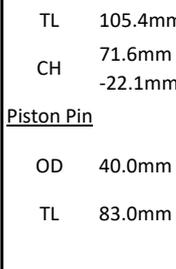
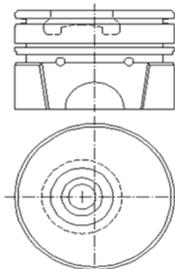
<p><u>Engine</u> SAA6D95LE 6 cyl., m³</p> <p><u>Bore</u> 95.0mm</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 50mm Liner : Fully-Finished & Phosphated .</p>	<p>3A95S13 KMKT0711410</p> <p>3L95S01-FP 6207-21-2110 6207-21-2120 6207-21-2121</p> <p><u>Cylinder Liner</u></p>  <p>TL 180.0mm OD 98.0mm FD 104.0mm FH 4.0mm</p>	<p>3P95S13-A 6208-31-2110</p> <p><u>Piston</u> TL 83.7mm CH 50.65mm -19.6mm</p> <p><u>Piston Pin</u> OD 30.0mm TL 74.0mm</p>	<p>3B95S02 6207-31-3130 6207-31-3530 6204-31-3130</p> 	<p>3R95S02 6208-31-2100</p> <p><u>Piston Ring</u></p> 
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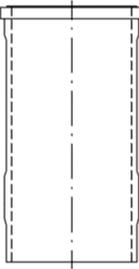
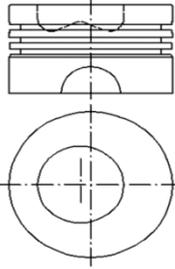
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.8

Liner Kit For KOMATSU Applications



<p><u>Engine</u> S4D102E-1</p> <p><u>Bore</u> 102.0MM</p> <p>4 cyl., Excavator:PC60-7,PC60-7B,PC100-6,PC100-6Z,PC100L-6,PC120-6, PC120-6Z,PC120-LC-6,PC128US-1, PC128UU-1,PC128US-2,PC128UU-2,PC130-6K,PC138USLL-2 Dozer:D31E-20,D31P-20A,D37E-5,D37P-5A,D38E-1,D38P-1,D38E-1A,D38P-1A,D39E-1,D39P-1,D39E-1A,D39P-1A</p> <p><u>Remark</u> Piston : Al-fin.Round combustion Chamber 51mm. Liner : Semi-Finished</p>	<p>3A02F01 KMKT3511100</p> <p>3L02S01-S 6736-29-2110</p> <p><u>Cylinder Liner</u></p> <p>TL 200.0 OD 104.5</p> 	<p>3P02S01-A 6735-31-2111 (Piston Body) 6735-31-2140 (Piston Kit)</p> <p><u>Piston</u></p> <p>TL 105.4mm CH 71.6mm -22.1mm</p> <p><u>Piston Pin</u></p> <p>OD 40.0mm TL 83.0mm</p> 	<p>3B02S01 6732-31-3131</p> 	<p>3R02S01 6738-31-2030</p> <p><u>Piston Ring</u></p> <p>RN 2.85 K  2.4  FM 4.0 </p>
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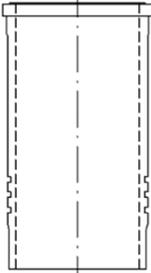
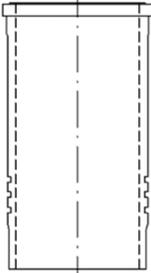
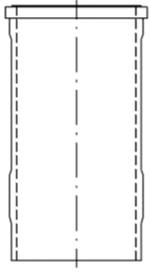
<p><u>Engine</u> S6D102E-1AB</p> <p><u>Bore</u> 102.0MM</p> <p>SA6D102E-1AB</p> <p>6 cyl.,5900m³ Dozer:D41A-6/E-6/P-6/E-6K Excavator:PC200-6/6A/6B/6H-A/6Z,PC200CA-6/6-C1/6-U1,PC200LC-6/6H/6Z,PC200LL-6, PC210-6,PC220-6,PC228US-1T,PC230-6,PC240-6K,PC250-6 Loader:WA180-3,WA250-3</p> <p><u>Remark</u> Piston : Al-fin.Round combustion Chamber 51mm. Liner : Semi-Finished</p>	<p>3A02S01 KMKT3811100</p> <p>3L02S01-S 6736-29-2110</p> <p><u>Cylinder Liner</u></p> <p>TL 200.0 OD 104.5</p> 	<p>3P02S01-A 6735-31-2111 (Piston Body) 6735-31-2140</p> <p><u>Piston</u></p> <p>TL 105.4mm CH 71.6mm -22.1mm</p> <p><u>Piston Pin</u></p> <p>OD 40.0mm TL 83.0mm</p> 	<p>3B02S01 6732-31-3131</p> 	<p>3R02S01 6738-31-2030</p> <p><u>Piston Ring</u></p> <p>RN 2.85 K  2.4  FM 4.0 </p>
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<p><u>Engine</u> 4D105-3C</p> <p><u>Bore</u> 105.0MM</p> <p>4 cyl., 4330m³ Dozer:D31A-16,D31P-16,D31P-16A,D31PL-16,D31PLL-16,D31Q-16, D31S-16</p> <p><u>Remark</u> Piston : Round Combustion Chamber 60mm Liner : Fully-Finished & Phosphated .</p>	<p>3A05F01 KMKT3021100</p> <p>3L05F01-FP 6130-22-2310</p> <p><u>Cylinder Liner</u></p> <p>TL 223.0mm OD 118.0mm FD 125.5mm FH 10.0mm +1.0</p> 	<p>3P05F01 6130-32-2110</p> <p><u>Piston</u></p> <p>TL 107.5mm CH 69.0mm</p> <p><u>Piston Pin</u></p> <p>OD 38.0mm TL 88.0mm</p> 	<p>3B05F01 6130-31-3130</p> 	<p>3R05F01 6130-32-2202 6130-32-2302/cyl. 6130-31-2202 6130-32-2301/cyl.</p> <p><u>Piston Ring</u></p> <p>3  2.5  FX 5.0 </p>
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Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.9

Liner Kit For KOMATSU Applications

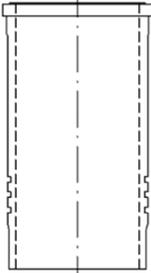
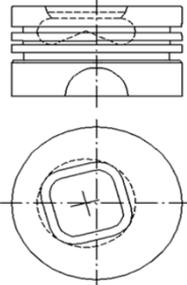
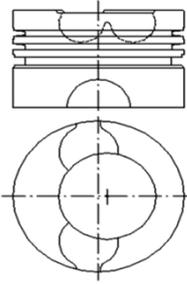
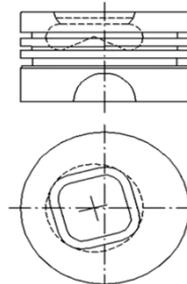


 									
Engine 4D105-5H,5J,5T 4 cyl., 4330m ³ Dozer:D31A-17,D31E-17,D31P-17/A,D31Q/S	Bore 105.0MM	3A05F02 KODKT0801	3L05F02-FP 6137-22-2210 6136-21-2210	3P05F02 6136-32-2110 (Piston Body) 6136-32-2010 (Piston Kit)	3B05F02 6136-32-3130	3R05F02 6136-31-2030/cyl. 6136-31-2010			
Remark Piston : Round Combustion Chamber 58mm Liner : Fully-Finished & Phosphated .		Cylinder Liner TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0		Piston TL 107.7mm CH 69.2mm -22.8mm -1.80 Piston Pin OD 40.0mm TL 84.0mm		Piston Ring RN 3.0  2.5  FX 5.0 			
Engine S4D105-5A/B 4 cyl., 4330m ³ Excavator:PC100-1,PC100-2,PC120-2,PW100-1	Bore 105.0MM	3A05F03 KMKT3721100	3L05F02-FP 6137-22-2210 6136-21-2210	3P05F03-A 6137-32-2110 (Piston Body) 6137-32-2010 (Piston Kit)	3B05F02 6136-32-3130	3R05F03 6137-31-2202 6137-31-2032/Cyl.			
Remark Piston : Al-fin.Round Combustion Chamber 59mm Liner : Fully-Finished & Phosphated .		Cylinder Liner TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0		Piston TL 107.7mm CH 69.2mm -22.2mm Piston Pin OD 40.0mm TL 86.0mm		Piston Ring RN 3.0 K  2.5 HK  FX 5.0 			
Engine S4D105-3 4 cyl., 4330m ³ Dozer:D40A-1/PL-1,D45A-1/P-1/S-1	Bore 105.0MM	3A05F04 KODKT1701	3L05F01-FP 6130-22-2310	3P05F04 6131-32-2120	3B05F01 6130-31-3130	3R05F04 6131-31-2201 6131-31-2301/cyl. 6131-32-2201 6131-32-2302/cyl.			
Remark Piston : Round Combustion Chamber 60mm Liner : Fully-Finished & Phosphated .		Cylinder Liner TL 223.0mm OD 118.0mm FD 125.5mm FH 10.0mm +1.0		Piston TL 107.5mm CH 69.0mm -22.90 Piston Pin OD 38.0mm TL 88.0mm		Piston Ring RN 3 K  2.5  FX 5.0 			

Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.10

Liner Kit For KOMATSU Applications

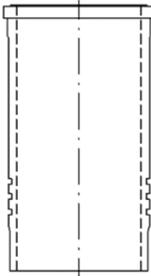
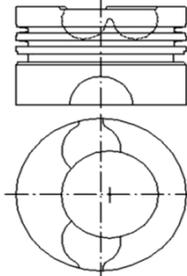
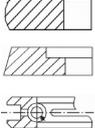


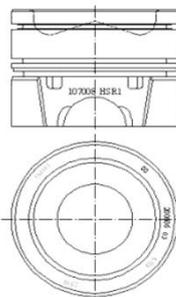
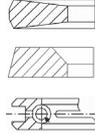
 											
Engine 6D105-1 6 cyl., 6490m ³ Dozer:D40A-3/AM-3,D40F-3,D40P-3/PF-3A/PL-3/PLL-3,D41A-3/A-3A/A-3C,D41E-3/P-3/Q-3/S-3 Excavator:PC200-1,PC200-2/LC-2 Grader:GD405A-1	Bore 105.0MM	3A05S01 KODKT1301	3L05F02-FP 6137-22-2210 6136-21-2210	3P05S01 6136-31-2112 (Piston Body) 6136-31-2012 (Piston Kit)	3B05S01 6136-31-3130	3R05F02 6136-31-2030/cyl. 6136-31-2010		Cylinder Liner TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0	Piston TL 107.5mm CH 69.0mm -22.6mm Piston Pin OD 40.0mm TL 84.0mm		Piston Ring RN 3.0 2.5 FX 5.0
Engine S6D105-1 6 cyl., 6490m ³ Graders:GD525A-1/A-1B/A-1C,GD515A-1,GD611A-1,GD621A-1/R-1,GD655A-5,GD661A-1 Loader:WA250-1,WA300-1/1A,WA320-1,WA320-1R	Bore 105.0MM	3A05S02 KODKT1801	3L05F02-FP 6137-22-2210 6136-21-2210	3P05S02-A 6137-32-2130 (Piston Body) 6137-32-2030 (Piston Kit)	3B05F02 6136-32-3130	3R05S01 6137-31-2040		Cylinder Liner TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0	Piston TL 107.7mm CH 69.2mm -23.7mm Piston Pin OD 40.0mm TL 86.0mm		Piston Ring RN 3.0 K 2.5 HK FM 5.0
Engine S6D105-5 6 cyl., 6490m ³ Excavator:PC200-3/LC-3/NLC-3,PC210-3/LC-3,PC220-3/LC-3/NLC-3,PC240-3K/LC-3K/NLC-3K,PF55L-1,PW210-1	Bore 105.0MM	3A05S03 KMKKT3710200	3L05F02-FP 6137-22-2210 6136-21-2210	3P05S03-A 6137-31-2020	3B05F02 6136-31-3130 6136-32-3130	3R05S01 6137-31-2040		Cylinder Liner TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0	Piston TL 107.5mm CH 69.0mm -22.7mm Piston Pin OD 40.0mm TL 86.0mm		Piston Ring RN 3.0 K 2.5 HK FM 5.0

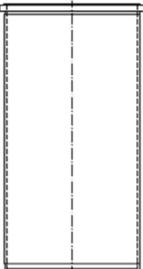
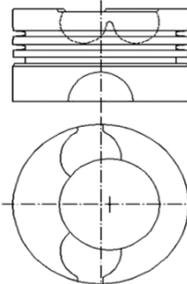
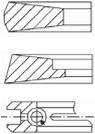
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating)

Liner Kit For KOMATSU Applications



Engine	Bore	3A05S04	3L05F02-FP	3P05S04-A	3B05F02	3R05F02
6D105-1	105.0MM	KODKT1901	6137-22-2210 6136-21-2210	6136-32-2110 (Piston Body) 6136-32-2010 (Piston Kit)	6136-32-3130	6136-31-2030/cyl. 6136-31-2010
6 cyl., 6490m ³ D40A-3/AM-3,D40F-3,D40P-3/PF-3A/PL-3,D41A-3/A-3A/A-3C,PC150-1/LC-1,PC200-2/LC-2,PC200-1,GD405A-1,WA200-1/1A			<u>Cylinder Liner</u>	<u>Piston</u>		<u>Piston Ring</u>
<u>Remark</u> Piston : Round Combustion Chamber 58mm Liner : Fully-Finished & Phosphated .			TL 223.0mm OD 118.7mm FD 127mm FH 10.0mm +1.0	TL 107.7mm CH 69.2mm -22.8mm -1.80 <u>Piston Pin</u> OD 40.0mm TL 84.0mm		RN 3.0 2.5 FX 5.0 

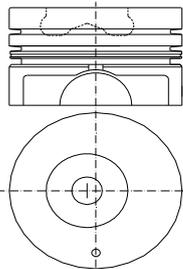
Engine	Bore	3A07S01	3L07S01-S	3P07S01-AO	3B07S01	3R07S01
SAA4D107E-1 SAA6D107E-1	107.0MM	KMKT3811100		6754-31-2110		
4 & 6 cyl., Crusher:BR380JG-1E0(6D107) Excavator:PC160LC-7E0,PC200LC-8(4D107) PC220LC-8,PC200-8,PC270-8,PC270LC-8N1-W1(6D107) Wheel Loader:WA200-6,WA250PZ-6,WA200PZ-6(4D107) WA250PZ-6,WA380-6,WA3020PZ-6,PC228US-3E0,PC228USLC-3E0(6D107)			<u>Cylinder Liner</u>	<u>Piston</u>		<u>Piston Ring</u>
<u>Remark</u> Piston : Al-fin.Round combustion Chamber 51mm. Liner : Semi-Finished			TL 202.0mm OD 110.0mm #120	TL 105.4mm CH 71.6mm -22.1mm <u>Piston Pin</u> OD 40.0mm TL 83.0mm		

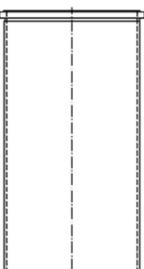
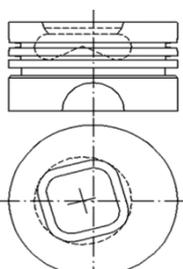
Engine	Bore	3A08S01	3L08S01-FP	3P08S01-A	3B08S01	3R08S01
SA6D108-1	108.0MM	KMKT2211100	6222-21-2110 6222-23-2231	6222-31-2110	6221-31-3130	6221-31-2200
6 cyl., Excavator:PC300-5/LC-5,PC300-5K/LC-5K/NLC-5K,PC300-5T,PC300LC-5,PC300LC-5T,PC360LC-5 Loader:WA420-3,WA420-3X/3X-R			<u>Cylinder Liner</u>	<u>Piston</u>		<u>Piston Ring</u>
<u>Remark</u> Piston : Al-fin.Round Combustion Chamber 66mm Liner : Fully-Finished & Phosphated .			TL 219.5mm OD 111.5mm FD 120.0mm FH 5.0mm +1.0	TL 113.8mm CH 66.7mm -21.5mm <u>Piston Pin</u> OD 45.0mm TL 85.0mm		2.5 K 2.53 K FM 4.0 

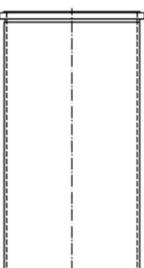
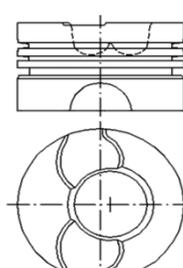
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.12

Liner Kit For KOMATSU Applications



<p><u>Engine</u> SAA6D108E-2A</p> <p><u>Bore</u> 108.0MM</p> <p>6 cyl., Excavator:PC300-6/6Z,PC300LC-6/6Z ,PC340LC-6K,PC340NLC-6K,PC350-6/LC-6 ,PC380LC-6K,PC380LC-6K-J</p> <p><u>Remark</u> Piston : Al-fin & Oil Gallery.Round Combustion Chamber 51mm Liner : Fully-Finished & Phosphated .</p>	<p>3A08S02 KMKT2211100</p> <p>3L08S01-FP 6222-21-2110 6222-23-2231</p> <p><u>Cylinder Liner</u></p>  <p>TL 219.5mm OD 111.5mm FD 120.0mm FH 5.0mm +1.0</p>	<p>3P08S02-AO 6222-33-2110</p> <p>3B08S01 6221-31-3130</p> <p><u>Piston</u></p>  <p>TL 113.8mm CH 66.7mm -26.0mm</p> <p><u>Piston Pin</u></p> <p>OD 45.0mm TL 85.0mm</p>	<p>3R08S01 6221-31-2200</p> <p><u>Piston Ring</u></p> <p>2.5 K  2.53 K  FM 4.0 </p>
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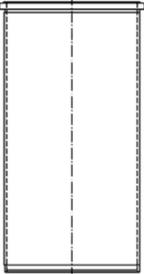
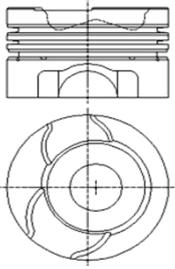
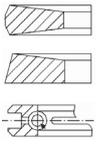
<p><u>Engine</u> S6D110-1C S6D110-1G</p> <p><u>Bore</u> 110.0MM</p> <p>6 cyl.,7130m³ Loader:WA380-1, WA400/420-1</p> <p><u>Remark</u> Piston : Al-fin. Rectangle Combustion Chamber 62mm Liner : Fully-finished & Phosphated.</p>	<p>3A10S01 KMKT3811100</p> <p>3L10S01-FP 6138-21-2211</p> <p><u>Cylinder Liner</u></p>  <p>TL 225.0mm OD 115.0mm FD 120.0mm FH 5.0mm +1.0</p>	<p>3P10S01-A 6138-31-2110 6138-31-2010</p> <p>3B10S01 6138-31-3133</p> <p><u>Piston</u></p>  <p>TL 116.0mm CH 69.0mm</p> <p><u>Piston Pin</u></p> <p>OD 40.0mm TL 90.0mm</p>	<p>3R10S01 6138-32-2200 R18180</p> <p><u>Piston Ring</u></p> <p>RN 3.0 K  2.5 HK  FM 5.0 </p>
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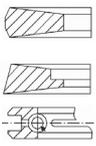
<p><u>Engine</u> S6D110-1C 1G/1N/1P</p> <p><u>Bore</u> 110.0MM</p> <p>6 cyl.,7130m³ Wheel Loader:WA380-1,WA400/420-1</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 62mm Liner : Fully-finished & Phosphated.</p>	<p>3A10S02 KMKT3821100</p> <p>3L10S01-FP 6138-21-2211</p> <p><u>Cylinder Liner</u></p>  <p>TL 225.0mm OD 115.0mm FD 120.0mm FH 5.0mm +1.0</p>	<p>3P10S02-A 6138-32-2110 6138-32-2010</p> <p>3B10S01 6138-31-3133</p> <p><u>Piston</u></p>  <p>TL 116.2mm CH 69.2mm -20.4mm</p> <p><u>Piston Pin</u></p> <p>OD 40.0mm TL 90.0mm</p>	<p>3R10S01 6138-32-2200 R18180</p> <p><u>Piston Ring</u></p> <p>RN 3.0 K  2.5 HK  FM 5.0 </p>
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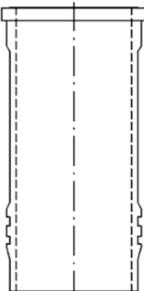
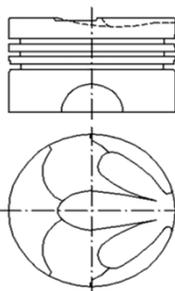
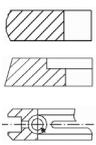
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F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.13

Liner Kit For KOMATSU Applications



<p><u>Engine</u> SA6D110-1J 1Q/1R/1U/1W 6 cyl.,7130m³ Dozer:D66S-1 Loader:WA380-1,WA400-1,WA420-1</p> <p><u>Bore</u> 110.0MM</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 66mm Liner : Fully-finished & Phosphated.</p>	<p>3A10S03 KMKT3821200</p> <p>3L10S01-FP 6138-21-2211 6138-21-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 225.0mm OD 115.0mm FD 120.0mm FH 5.0mm +1.0</p>	<p>3P10S03-A 6138-32-2120 (Piston Body) 6138-32-2020</p> <p><u>Piston</u></p> <p>TL 116.2mm CH 69.2mm -22.0mm</p> <p><u>Piston Pin</u></p> <p>OD 40.0mm TL 90.0mm</p> 	<p>3B10S01 6138-31-3133</p> <p><u>Piston Ring</u></p> <p>RN 3.0 K 2.5 HK FM 5.0</p> 	<p>3R10S01 6138-32-2200 R18180</p>
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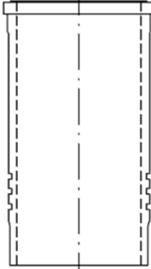
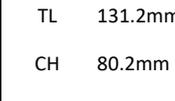
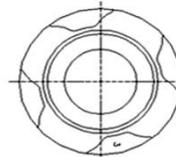
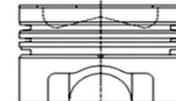
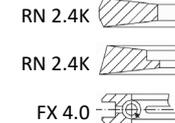
<p><u>Engine</u> SA6D114E-2 SAA6D114E-2 6 cyl., Dozer:D63E-12,D61DX-12A-W,D61EX-12A-W,D61EX-15,D61PX-15 Loader:WA380-3,WA380-5-TN,WA380-5,WA380-5-SN,WA400-5 Excavator:PC300LC-7-BA,PC300-7-AA,PC340LC-7,PC340NLC-7K,PC350LC-7-BA,PC360-7,PC380LC-7K Grader:GD655-3,GD655-3A,GD655-3Y,GD675-3A Crawler Carrier:CD110R-2</p> <p><u>Bore</u> 114.0MM</p> <p><u>Remark</u> Piston : Al-fin.Round Combustion Chamber 55mm Liner : Fully-finished & Phosphated.</p>	<p>3A14S01 KMKT4321100 3802263</p> <p>3L14S01-FP 6742-01-5159</p> <p><u>Cylinder Liner</u></p> <p>TL 238.3mm OD 123.0mm FD 133.0mm FH 15.0mm</p>	<p>3P14S01-AD 6743-31-2110 3917707 3802263 6743-31-2100</p> <p><u>Piston</u></p> <p>TL 120.5mm CH 79.0mm -25.0mm</p> <p><u>Piston Pin</u></p> <p>OD 45.0mm TL 91.0mm</p>	<p>2B14S01 6742-01-2740</p> <p><u>Piston Ring</u></p> 	<p>3R14S01</p>
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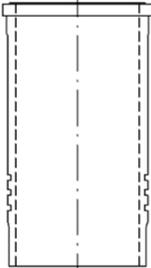
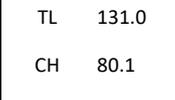
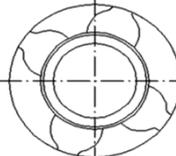
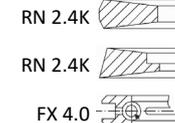
<p><u>Engine</u> 4D120 4 cyl.,7240m³ Bull-Dozer:D55S-3</p> <p><u>Bore</u> 120.0MM</p> <p><u>Remark</u> Piston : Al-fin & Tin Plated. Liner : Fully-finished & Phosphated.</p>	<p>3A20F01 KODKT0201</p> <p>3L20F01-FP 6110-21-2212</p> <p><u>Cylinder Liner</u></p>  <p>TL 293.0mm OD 140.0mm FD 150.0mm FH 13.0mm +1.0</p>	<p>3P20F01 6110-33-2132</p> <p><u>Piston</u></p> <p>TL 135.0mm CH 90.0mm</p> <p><u>Piston Pin</u></p> <p>OD 44.0mm TL 102.0mm</p> 	<p>3B30F01 6110-23-1442 6110-33-3120</p> <p><u>Piston Ring</u></p> <p>RN 3.5 2.5 FX 5.5</p> 	<p>3R20F01 6110-30-2303 6110-30-2403/cyl. 6110-30-2302 R18900</p>
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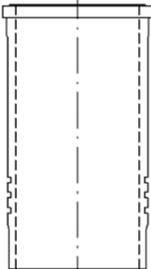
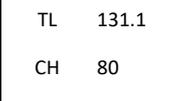
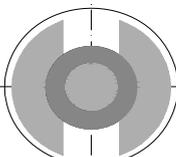
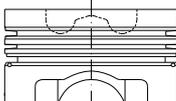
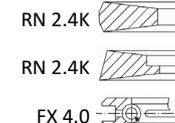
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.14

Liner Kit For KOMATSU Applications



<p><u>Engine</u> 6D125-1 6 cyl.,11040m³ Dozer : D50A-17,D50P/P-17/PL17,D53A-17/P17,D58E-1/E1B,D58P-1/P1B, D60A-8/P-8/S-8,D65A-8/E-8,D65E-12,D65P-8/S-8,D68E-1,D68P-1, D70-LE/D70LE-12</p> <p><u>Remark</u> Piston :Al-fin.Round Combustion Chamber 75mm Liner : AB1 Nitrided & Phosphated.</p>	<p><u>Bore</u> 125.0MM</p>	<p>3A25S01 KMKT5021110</p>	<p>3L25S01-NP 6150-21-2221 6151-22-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S01-A 6150-31-2112 (Piston Body) 6150-31-2012 (Piston Kit)</p> <p><u>Piston</u></p>  <p>TL 131.2mm CH 80.2mm</p> <p><u>Piston Pin</u></p>  <p>OD 48.0mm TL 104.0mm</p>	<p>3B25S01 6150-31-3130</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p>  <p>RN 2.4K RN 2.4K FX 4.0</p>
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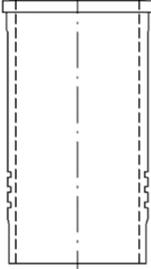
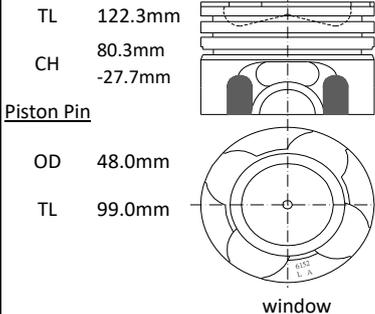
<p><u>Engine</u> S6D125-1 6 cyl.,11040m³ Dozers:D83E-1,D83P-1,D85A-21,D85A-21B,D85E-21,D85P-21 Excavators:PC300-3,PC300LC-3,PC360LC-3</p> <p><u>Remark</u> Piston :Al-fin.Round Combustion Chamber 75mm Liner : AB1 Nitrided & Phosphated.</p>	<p><u>Bore</u> 125.0MM</p>	<p>3A25S02 KMKT5111710</p>	<p>3L25S01-NP 6150-21-2221 6151-22-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S02-A 6151-31-2171 6151-31-2150 (Piston Body) 6151-31-2071 6151-31-2060</p> <p><u>Piston</u></p>  <p>TL 131.0 CH 80.1</p> <p><u>Piston Pin</u></p>  <p>OD 48.0mm TL 104.0mm</p>	<p>3B25S01 6151-31-3230 6151-31-3130 (Trapezium)</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p>  <p>RN 2.4K RN 2.4K FX 4.0</p>
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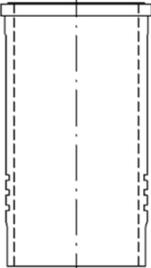
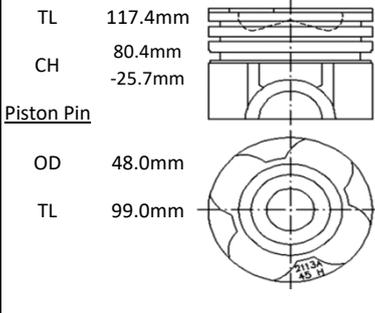
<p><u>Engine</u> S6D125E-2 6 cyl.,11040m³ Dozers:D60EX-12 ,D60P-12/PX-12 ,D65E-12,D70S-5,D75S-5,D85E-SS-2-E Road Stabilizer:CS210-1 Crane:LW250-5H,LW250-5X</p> <p><u>Remark</u> Piston :Al-fin.Head Anodized(Partial) Round Combustion Chamber 66.5mm Liner : AB1 Nitrided & Phosphated.</p>	<p><u>Bore</u> 125.0MM</p>	<p>3A25S06 KMKT5121100</p>	<p>3L25S01-NP 6150-21-2221 6151-22-2220 6150-21-2222</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S06-AD 6151-32-2110</p> <p><u>Piston</u></p>  <p>TL 131.1 CH 80</p> <p><u>Piston Pin</u></p>  <p>OD 48.0mm TL 104.0mm</p>	<p>3B25S01 6151-31-3230 6150-31-3130 (Trapezium)</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p>  <p>RN 2.4K RN 2.4K FX 4.0</p>
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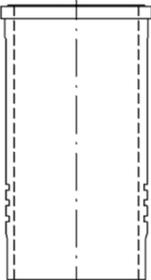
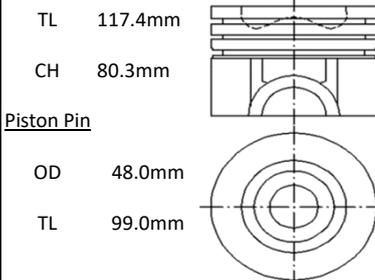
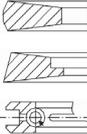
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.15

Liner Kit For KOMATSU Applications



<p><u>Engine</u> S6D125</p> <p><u>Bore</u> 125.0MM</p> <p>6 cyl.,11040m³</p> <p><u>Remark</u> Iron Piston :Round Combustion Chamber 75mm Liner : AB1 Nitrided & Phosphated.</p>	<p>3A25S03 KMKT5111120</p> <p>3L25S01-NP 6150-21-2221 6151-22-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S03-INO 6151-31-2112</p> <p>3B25S01 6150-31-3130</p> <p><u>Piston</u></p> <p>TL 122.3mm CH 80.3mm -27.7mm</p> <p><u>Piston Pin</u></p> <p>OD 48.0mm TL 99.0mm</p>  <p>window</p>	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p> <p>RN 2.4K </p> <p>RN 2.4K </p> <p>FX 4.0 </p>
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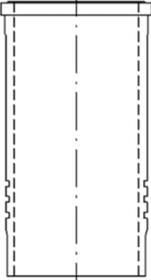
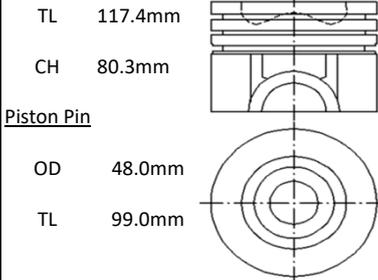
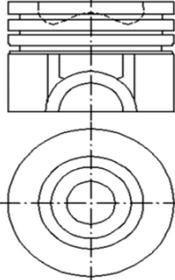
<p><u>Engine</u> S6D125-1</p> <p><u>Bore</u> 125.0MM</p> <p>6 cyl.,11040m³ D60A-8A/F-8,D70S-5,PC300-3/LC-3,PC360-LC3,PC400-3/LC-3,PC400-5A/5C/5T/LC-3,PC400-5/LC-5/LC5-T,PC400HD-5K</p> <p><u>Remark</u> Iron Piston :Round Combustion Chamber 75mm Liner :AB1 Nitrided & Phosphated.</p>	<p>3A25S04 KMKT5115110</p> <p>3L25S01-NP 6150-21-2221 6151-22-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S04-INO 6151-31-2511 6151-31-2170 6151-31-2710</p> <p>3B25S01 6150-31-3130</p> <p><u>Piston</u></p> <p>TL 117.4mm CH 80.4mm -25.7mm</p> <p><u>Piston Pin</u></p> <p>OD 48.0mm TL 99.0mm</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p> <p>RN 2.4K </p> <p>RN 2.4K </p> <p>FX 4.0 </p>
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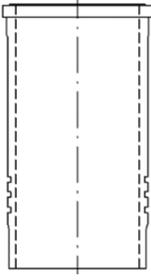
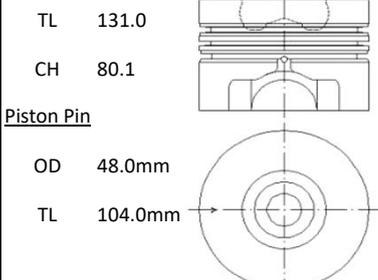
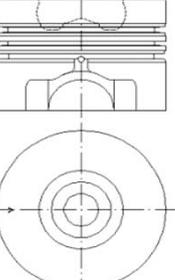
<p><u>Engine</u> SAA6D125E-5</p> <p><u>Bore</u> 125.0MM</p> <p>6 cyl.,11040m³ Dozer:D85EX-15E0,D85PX-15E0,D85EX-15R,D85PX-15R Excavator: PC400-8,PC400LC-8,PC450-8,PC450LC-8,PC550LC-8,PC400-8R,PC400LC-8R,PC450-8R,PC450LC-8R,PC550LC-8R Loader:WA480-6,WA480-6A,WA470-6,WA470-6A</p> <p><u>Remark</u> Iron Piston :Round Combustion Chamber 63mm Liner : AB1 Nitrided & Phosphated.</p>	<p>3A25S08 KMKT5215100</p> <p>3L25S02-NP 6154-21-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL OD FD FH</p>	<p>3P25S08-INO 6251-31-2510 6251-31-2110</p> <p>3B25S02 6251-31-3130</p> <p><u>Piston</u></p> <p>TL 117.4mm CH 80.3mm</p> <p><u>Piston Pin</u></p> <p>OD 48.0mm TL 99.0mm</p> 	<p>3R25S02 6251-31-2030</p> <p><u>Piston Ring</u></p> 
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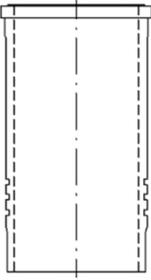
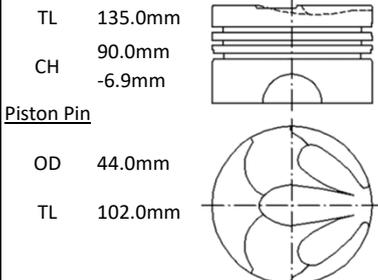
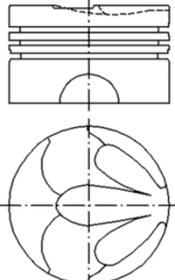
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.16

Liner Kit For KOMATSU Applications



<p><u>Engine</u> S6D125E-2</p> <p><u>Bore</u> 125.0MM</p> <p>SA6D125E-2 , SA6D125E-3B-7 , SAA6D125E-3</p> <p>6 cyl.,11040m³ Dozer:D50A-17,D50P/P17/PL17,D53A-17/P17,D58E-1/E1B,D58P-1/P1B,D60A-8/P-8/S-8,D65A-8/E-8,D65E-12,D65P-8/S-8,D68E-1/P-1,D70-LE</p> <p><u>Remark</u> Iron Piston :Round Combustion Chamber 63mm Liner : AB1 Nitrided & Phosphated.</p>	<p>3A25S05 KMKT5215100</p> <p>3L25S01-NP 6150-21-2221 6151-22-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S05-I 6152-32-2510 6152-32-2511</p> <p><u>Piston</u></p> <p>TL 117.4mm CH 80.3mm</p> <p><u>Piston Pin</u></p> <p>OD 48.0mm TL 99.0mm</p> 	<p>3B25S01 6150-31-3130</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p> <p>RN 2.4  RN 2.4  FX 4.0 </p>
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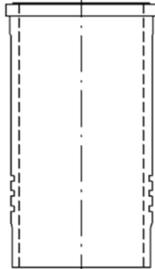
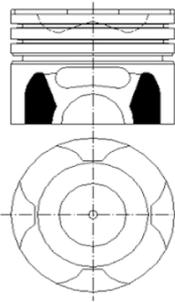
<p><u>Engine</u> 6D125E-2</p> <p><u>Bore</u> 125.0MM</p> <p>6 cyl.,11040m³ Dozer:D53P-17,D53A-17,D70LE-12,D65-12-E,D65E-12,D53P-18A,D58P-1,D58E-1B,D53A-18 Motor Grader:GD605A-5S,GD605A-5</p> <p><u>Remark</u> Piston :Round Combustion Chamber 62mm Liner : AB1 Nitrided & Phosphated.</p>	<p>3A25S07 KMKT5021100</p> <p>3L25S01-NP 6150-21-2222 6151-22-2220 6150-21-2221</p> <p><u>Cylinder Liner</u></p>  <p>TL 256.5mm OD 141.4mm FD 153.0mm FH 10.0mm +2.0</p>	<p>3P25S07-A 6150-32-2110</p> <p><u>Piston</u></p> <p>TL 131.0 CH 80.1</p> <p><u>Piston Pin</u></p> <p>OD 48.0mm TL 104.0mm</p> 	<p>3B25S01 6150-31-3130</p> 	<p>3R25S01 6150-31-2033 /cyl. R18211 6150-32-2030/cyl.</p> <p><u>Piston Ring</u></p> <p>RN 2.4K  RN 2.4K  FX 4.0 </p>
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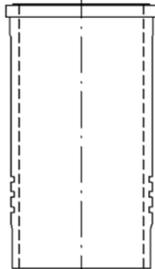
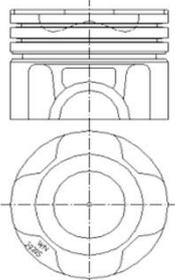
<p><u>Engine</u> 4D130-1</p> <p><u>Bore</u> 130.0MM</p> <p>4 cyl.,8490m³ Dozer:D50A-16,D50S-16,D50P-16,D53A-16/P-16,D53S-16,D53S-17</p> <p><u>Remark</u> Piston :Round Combustion Chamber 63mm Liner : Fully-Finished Retainer#6110-31-2120 Liner O-ring#6610-21-2221,6610-21-2250 Liner Seal#6610-21-2240 Gasket Cylinder Head:6114-11-1811</p>	<p>3A30F01 KMKT1421110</p> <p>3L30F01 6115-21-2211</p> <p><u>Cylinder Liner</u></p>  <p>TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0</p>	<p>3P30F01 6114-31-2111</p> <p><u>Piston</u></p> <p>TL 135.0mm CH 90.0mm -6.9mm</p> <p><u>Piston Pin</u></p> <p>OD 44.0mm TL 102.0mm</p> 	<p>3B30F01 6110-23-1442 6110-33-3120</p> 	<p>3R30F01 6114-30-2303 6114-30-2403/cyl. R18400</p> <p><u>Piston Ring</u></p> <p>RN 3.5  2.5  FX 5.5 </p>
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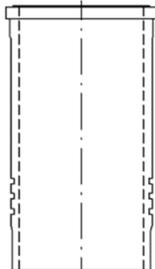
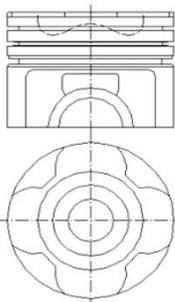
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.17

Liner Kit For KOMATSU Applications



<u>Engine</u> S6D140 6 cyl.,15200m ³ Excavator:PC650-3 Bulldozer:D135A-2 ,D155AX-3 Wheel Loader:WA500-1 <u>Remark</u> Iron Piston : Oil Gallery & Nitriding.Round Combustion Chamber 92mm Liner : Nitrided	<u>Bore</u> 140.0MM	3A40S01 KMKT1121110	3L40S01-FP 6211-21-2210 6211-22-2220	3P40S01-INO 6211-31-2111 6211-32-2110	3B40S01 6211-31-3130	3R40S01 6211-31-2031 6211-31-2032/cyl. R18970
			<u>Cylinder Liner</u> TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0	<u>Piston</u> TL 130.3mm CH 85.3mm -26.8mm -2.1mm -1.3mm <u>Piston Pin</u> OD 52.0mm TL 110.0mm		<u>Piston Ring</u> RN 2.4K RN 2.4K FM 4.0

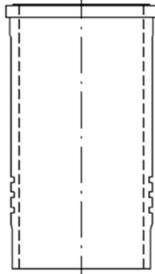
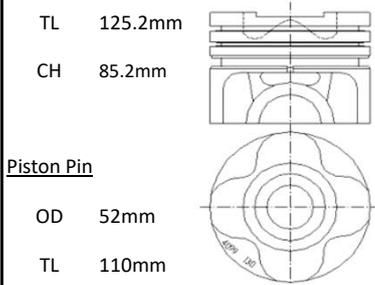
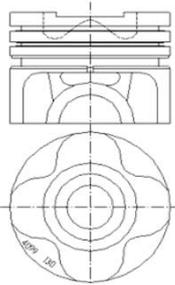
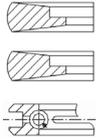
<u>Engine</u> SA6D140-1 SA12V140-1 6 cyl.,15200m ³ [SA6D140-1] Excavator:C650-3/SE-3/5/E-5/LC-5/SE-5,PC750-5/SE-5,PC1600-1 Dumper:HD325-5/6/6W [SA12V140-1] Dozer:D475A-2 Loader:WA800-2/2LC/3/3LC,WA900-1/1L/1LC/3/3LC Dumper:HD785-3/5 HD985-3/5 <u>Remark</u> Iron Piston : Oil Gallery & Nitriding. Round Combustion Chamber 92mm Liner : Nitrided	<u>Bore</u> 140.0MM	3A40S02 KMKT1211700	3L40S01-FP 6211-21-2210 6211-22-2220	3P40S02-INO 6212-31-2170 6211-31-2410 6212-31-2110 6211-31-2130	3B40S01 6211-31-3130	3R40S01 6211-31-2031 6211-31-2032/cyl. R18970
			<u>Cylinder Liner</u> TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0	<u>Piston</u> TL 125.3mm CH 85.3mm -28.4mm -2.1mm 1.3mm <u>Piston Pin</u> OD 52.0mm TL 110.0mm		<u>Piston Ring</u> RN 2.4 K RN 2.4K FM 4.0

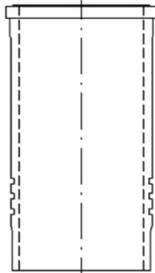
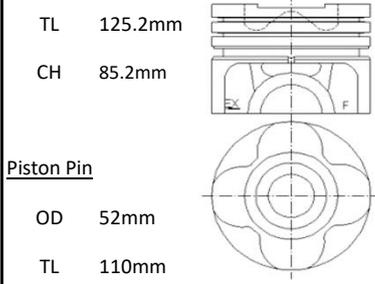
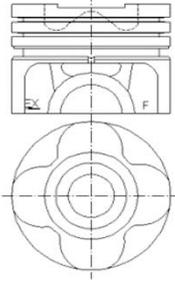
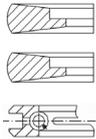
<u>Engine</u> S6D140-1 6 cyl.,15200m ³ Excavator:PC650-3 Bulldozer:D135A-2 ,D155AX-3 Wheel Loader:WA500-1 Iron Piston : Oil Gallery & NitridingRound Combustion Chamber 78mm Liner : Nitrided	<u>Bore</u> 140.0MM	3A40S03 KMKT1211510	3L40S01-FP 6211-21-2210 6211-22-2220	3P40S03-INO 6212-31-2151 6212-31-2130 6211-32-2130	3B40S01 6211-31-3130	3R40S01 6211-31-2031 6211-31-2032/cyl. R18970
			<u>Cylinder Liner</u> TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0	<u>Piston</u> TL 125.3mm CH 85.3mm -31.3mm -2.1mm -1.3mm <u>Piston Pin</u> OD 52.0mm TL 110.0mm		<u>Piston Ring</u> RN 2.4 K RN 2.4K FM 4.0

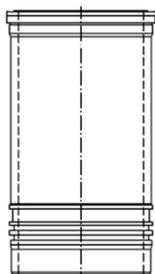
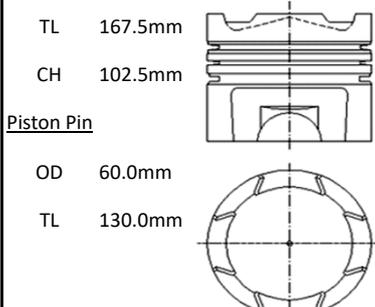
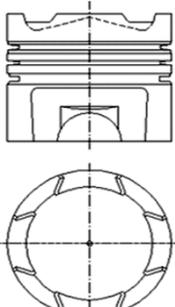
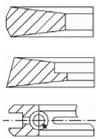
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.18

Liner Kit For KOMATSU Applications



<p><u>Engine</u> SA6D140-E3 SDA6D140-E3 6 cyl., Excavator:PC600,PC-750, PC1800 Bulldozer:D-155A-X,D275AX-5 Wheel Loader:WA-500</p> <p>Iron Piston : Oil Gallery & Nitriding Round Combustion Chamber 76.7mm Liner : Nitrided</p>	<p><u>Bore</u> 140.0MM</p>	<p>3A40S04 KMKT1711300</p> 	<p>3L40S02-FP 6218-21-2210</p> <p><u>Cylinder Liner</u></p> <p>TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0</p>	<p>3P40S04-INO 6217-31-2130</p> <p><u>Piston</u></p> <p>TL 125.2mm CH 85.2mm</p> <p><u>Piston Pin</u></p> <p>OD 52mm TL 110mm</p> 	<p>3B40S01 6211-31-3130</p> 	<p>3R40S02 6217-31-2030</p> <p><u>Piston Ring</u></p> 
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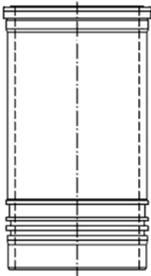
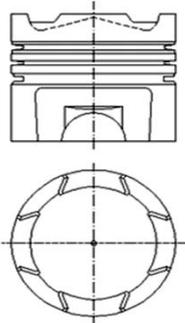
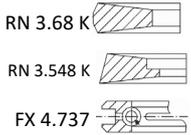
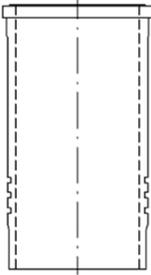
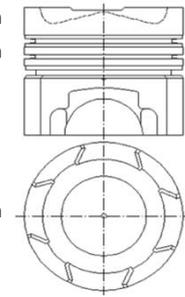
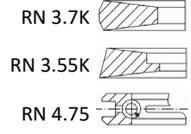
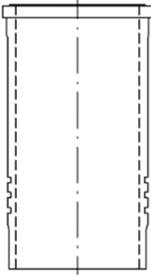
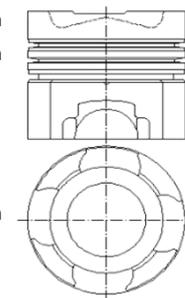
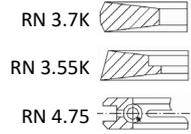
<p><u>Engine</u> SAA6D140E-5 6 cyl., Excavator:PC600,PC600LC,PC650LC,PC700LC ,PC800,PC800LC Bulldozer:D-155A- 6R,D155AX-6,D275A-5R,D275AX-5E0 Wheel Loader:WA500-6,WA500-6R Off-Highway Truck:HD325-7,HD325-7R,HD405-7,HD405- 7R Dump Truck:HM400-2,HM400- 2R HM350-2 HM350-2R HM400- Iron Piston : Oil Gallery & NitridingRound Combustion Chamber 76.7mm Liner : Nitrided</p>	<p><u>Bore</u> 140.0MM</p>	<p>3A40S05 KMKT6111300</p> 	<p>3L40S01-FP 6211-22-2220</p> <p><u>Cylinder Liner</u></p> <p>TL 293.0mm OD 146.0mm FD 156.0mm FH 13.0mm +1.0</p>	<p>3P40S05-INO 6261-31-2130</p> <p><u>Piston</u></p> <p>TL 125.2mm CH 85.2mm</p> <p><u>Piston Pin</u></p> <p>OD 52mm TL 110mm</p> 	<p>3B40S02 6261-31-3140 (Trapezium)</p> 	<p>3R40S03 6261-31-2030</p> <p><u>Piston Ring</u></p> 
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<p><u>Engine</u> S6D155-4 6 cyl.,19260m³ Dozer:D150A-1,D155A-1,D155A-2,D155S- 1,D155W-1,D355A-3</p> <p><u>Remark</u> Piston :Al-fin , Round Combustion Chamber 131mm Liner : AB1 Nitrided & Phosphated.</p>	<p><u>Bore</u> 155.0MM</p>	<p>3A55S01 KMKT2711400</p> 	<p>3L55S01-FNP 6128-21-2216</p> <p><u>Cylinder Liner</u></p> <p>TL 327.0mm OD 176.0mm FD 184.0mm FH 14.0mm</p>	<p>3P55S01-A 6127-31-2140 (Piston Body) 6127-31-2030 (Piston kit)</p> <p><u>Piston</u></p> <p>TL 167.5mm CH 102.5mm</p> <p><u>Piston Pin</u></p> <p>OD 60.0mm TL 130.0mm</p> 	<p>3B55S01 6127-31-3131</p> 	<p>3R55S01 6128-31-2060 6128-31-2070/cyl. R18370</p> <p><u>Piston Ring</u></p> <p>RN 3.68 K RN 3.548 K FX 4.737</p> 
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Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating
F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.19

Liner Kit For KOMATSU Applications

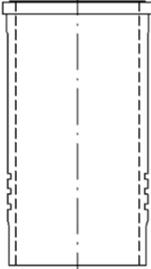
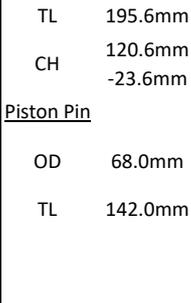
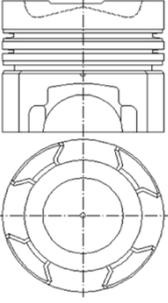


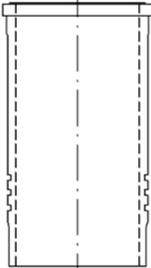
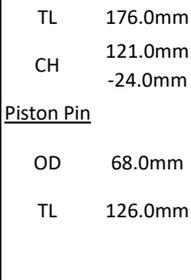
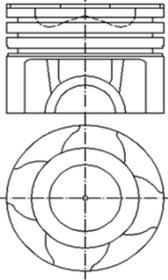
<p>Engine SA6D155-4</p> <p>Bore 155.0MM</p> <p>6 cyl.,19260m³ Dozer:D355A-3,D355A-5</p> <p>Remark Piston : Round Combustion Chamber 124mm Liner :AB1 Nitrided & Phosphated.</p>	<p>3A55S02 KMKT2811400</p> <p>3L55S01-FNP 6128-21-2216</p> <p>3P55S02 6128-31-2140 (Piston Body) 6128-31-2050 (Piston Assy)</p> <p>3B55S01 6127-31-3131</p> <p>3R55S01 6128-31-2060 6128-31-2070/cyl. R18370</p>	<p>Cylinder Liner</p>  <p>TL 327.0mm OD 176.0mm FD 184.0mm FH 14.0mm</p>	<p>Piston</p>  <p>TL 170.0 CH 105.0</p> <p>Piston Pin</p> <p>OD 60.0mm TL 130.0mm</p>	<p>Piston Ring</p>  <p>RN 3.68 K RN 3.548 K FX 4.737</p>		
<p>Engine SA8V170-1</p> <p>Bore 170.0MM</p> <p>8 cyl. Dozer:D475A-1(SA8V170-1A) Dumper:HD785-2 (SA8V170-1B) Loader:WA800-1(SA8V170-1C)</p> <p>Remark Piston :Al-fin,Oil Gallery,Head Anodized & Tin Plated,Round Combustion Chamber 122mm Liner : Nitrided</p>	<p>3A70S01 KMKT6411100</p> <p>3L70S01-FN 6162-23-2210 6162-23-2250</p> <p>3P70S01-ADO 6164-31-2110</p> <p>3B70S01 6162-33-3131</p> <p>3R70S01 6162-33-2060</p>	<p>Cylinder Liner</p>  <p>TL 342.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0</p>	<p>Piston</p>  <p>TL 195.6mm CH 120.6mm -22.1mm</p> <p>Piston Pin</p> <p>OD 68.0mm TL 142.0mm</p>	<p>Piston Ring</p>  <p>RN 3.7K RN 3.55K RN 4.75</p>		
<p>Engine SA6D170-A-1 , -B-1 SA12V170-1</p> <p>Bore 170.0MM</p> <p>6 & 12 cyl. (6 Cyl.)Dozer:D375A-1,D375A-2 Dumper:HD465-3 Excavator:PC1000LC-1,PC1000SE-1,PC1000-1 Generator:EG580-1,EGS650 DCA-500SSK,DCA600SSK (12 Cyl.) Dozer:D575A-2</p> <p>Remark Piston :Al-fin,Oil Gallery,Head Anodized ,Round Combustion Chamber 122mm Liner : Nitrided</p>	<p>3A70S03 KMKT6231400</p> <p>3L70S01-FN 6162-23-2210 6162-23-2250</p> <p>3P70S03-ADO 6162-33-2140</p> <p>3B70S01 6162-33-3131</p> <p>3R70S01 6162-33-2060</p>	<p>Cylinder Liner</p>  <p>TL 342.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0</p>	<p>Piston</p>  <p>TL 195.5mm CH 120.5mm -22.1mm</p> <p>Piston Pin</p> <p>OD 68.0mm TL 142.0mm</p>	<p>Piston Ring</p>  <p>RN 3.7K RN 3.55K RN 4.75</p>		

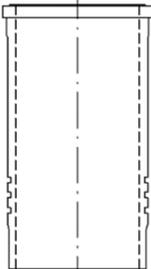
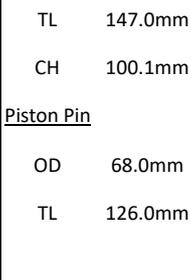
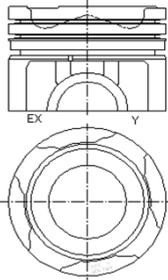
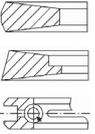
Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.20

Liner Kit For KOMATSU Applications



<p><u>Engine</u> S6D170-1</p> <p><u>Bore</u> 170.0MM</p> <p>6 cyl. Dozer:D275A-2(S6D170-1L/1LW) Loader:WA600-1(S6D170-1D),WA600-1L(S6D170-1),WD600-1(S6D170-1G) Excavators:PC650-1(S6D170-1A)</p> <p><u>Remark</u> Piston : Alfin & Head Anodized ,Round Combustion Chamber 112mm Liner :Nitrided</p>	<p>3A70S02 KMKT6231200</p> <p>3L70S01-FN 6162-23-2210 6162-23-2250</p> <p><u>Cylinder Liner</u></p>  <p>TL 342.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0</p>	<p>3P70S02-AD 6162-33-2120</p> <p><u>Piston</u></p> <p>TL 195.6mm CH 120.6mm -23.6mm</p> <p><u>Piston Pin</u></p> <p>OD 68.0mm TL 142.0mm</p> 	<p>3B70S01 6162-33-3131</p> 	<p>3R70S01 6162-33-2060</p> <p><u>Piston Ring</u></p> <p>RN 3.7K  RN 3.55K  RN 4.75 </p>
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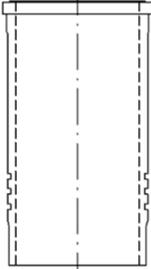
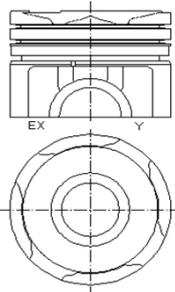
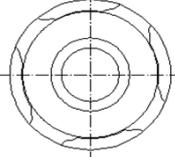
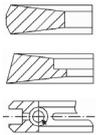
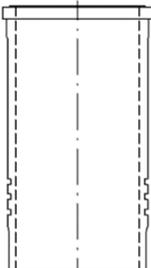
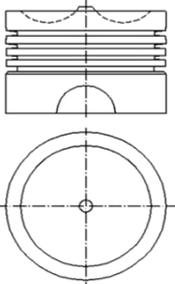
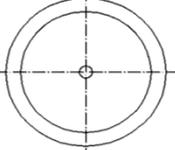
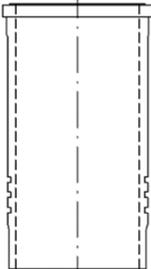
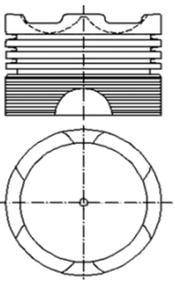
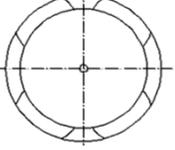
<p><u>Engine</u> SA6D170E-2</p> <p><u>Bore</u> 170.0MM</p> <p>SAA6D170E-2A SA12V170-1</p> <p>6 cyl.Bull-Dozer:D275A-2,D375A-3, D375A/3AD/3D,D575A-3(SA12V170-1) Loader:WA600-3/3C/3D,WA700-1L, WA700-3/3D/3L Excavator:PC1000-1/LC-1/SE-1/SP-1,PC1100-6/LC-6 Dumper:HD645-5,HD605-5(SAA6D170E-2A)</p> <p>Iron Piston : Round Combustion Chamber 118mm Liner :Nitrided</p>	<p>3A70S04 KMKT6251200</p> <p>3L70S02-FN 6162-25-2210</p> <p><u>Cylinder Liner</u></p>  <p>TL 332.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0</p>	<p>3P70S04-INO 6162-35-2120</p> <p><u>Piston</u></p> <p>TL 176.0mm CH 121.0mm -24.0mm</p> <p><u>Piston Pin</u></p> <p>OD 68.0mm TL 126.0mm</p> 	<p>3B70S01 6162-33-3131</p> 	<p>3R70S01 6162-33-2060</p> <p><u>Piston Ring</u></p> <p>RN 3.7K  RN 3.55K  RN 4.75 </p>
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<p><u>Engine</u> SA6D170E-3</p> <p><u>Bore</u> 170.0MM</p> <p>SAA6D170E-3</p> <p>6 cyl. Bull-Dozer:D275A-5 Loader:WA600-3,WA600-3LK,WA700-3 Excavator:PC1250SP-7 Dumper:HD605-7 WHEEL DOZER:WD600-3</p> <p>Iron Piston : Round Combustion Chamber 122mm Liner :Nitrided</p>	<p>3A70S05 KMKT4011110</p> <p>3L70S03-FN 6240-21-2220</p> <p><u>Cylinder Liner</u></p>  <p>TL 320.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0</p>	<p>3P70S05-INO 6240-31-2111</p> <p><u>Piston</u></p> <p>TL 147.0mm CH 100.1mm</p> <p><u>Piston Pin</u></p> <p>OD 68.0mm TL 126.0mm</p> 	<p>3B70S02 6240-31-3141</p> 	<p>3R70S02 6240-31-2030</p> <p><u>Piston Ring</u></p> 
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Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.21

Liner Kit For KOMATSU Applications

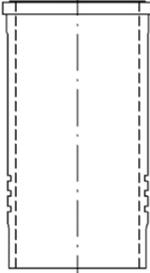
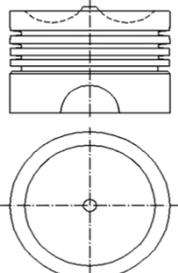
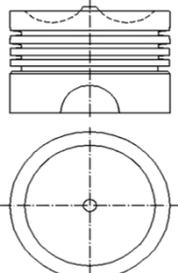


Engine	Bore	3A70S06	3L70S03-FN	3P70S06-INO	3B70S03	3R70S03
SAA6D170E-5 170.0MM 6 cyl. Bull-Dozer:D375A-6,D375A-6R Loader:WA600-6,WA600-6R Excavator:PC1250-8,PC1250LC-8,PC1250SP-8,PC1250-8R,PC1250SP-8R Dumper:HD465-7R,HD605-7R,HD465-7E0,HD605-7E0 WHEEL DOZER:WD600-6 Iron Piston : Round Combustion Chamber 83/146mm Liner :Nitrided		KMKT4511100	6240-21-2220	6245-31-2110	6245-31-3130	6245-31-2010
			<u>Cylinder Liner</u> TL 320.0mm OD 190.3mm FD 206.0mm FH 14.0mm +2.0	<u>Piston</u> TL 147.0mm CH 100.1mm <u>Piston Pin</u> OD 68.0mm TL 126.0mm	 	<u>Piston Ring</u> 
NH220-C1 130.18MM 6 cyl.,12170m ³ Dozer:D60A-6/E-6/P-6/PL-6/S-6/A-7/E-7/P-7/PL-7/S-7,D65A-6/E-6/P-6/S-6 D65E-7/P-7/S-7,D65S-6,D68E-1A/P-1A,D75S-2/3,D80A-12,D85A-12, Piston : Round Combustion Chamber 99mm Liner : Fully-Finished		KODKT1601	6610-21-2213	6620-31-2110 (Piston Body) 6620-31-2010 (Piston Body)	6620-31-3120	6620-31-2030/cyl. 6620-31-2020 R18320
			<u>Cylinder Liner</u> TL 303.5mm OD 146.0mm FD 156.0mm FH 11.0mm +2.0	<u>Piston</u> TL 158.5mm CH 101.5mm <u>Piston Pin</u> OD 50.8mm TL 110.0mm	 	<u>Piston Ring</u> RN 3.78K RN 3.61K RN 3.61 RN 6.12
NT855-1 139.70MM 6 cyl., Piston :Top & 2nd Ring Grooves Al-fin, Round Combustion Chamber 97.5mm Liner :Fully-Finished		KMKT1121100	6710-21-2210	3048808	6710-31-3120	6710-31-2033/cyl. 6710-31-2023 R18720
			<u>Cylinder Liner</u> TL 288.0mm OD 155.5mm FD 167.0mm FH 9.0mm +2.0	<u>Piston</u> TL 155.0mm CH 105.8mm <u>Piston Pin</u> OD 50.8mm TL 119.0mm	 	<u>Piston Ring</u> RN 3.595 RN 2.878 RN 2.878 FX 4.75

Suffix Code:Piston (A=Alfin D=Head Anodized M=MoS2 Coating N=Nitrided O=Oil Gallery T=Tin Plating ,Liner (C=Chrome plating F=F/F IH=Induction Harden N=Nitrided P=Phosphated S=S/F U=Copper plating) Komatsu P.22

Liner Kit For KOMATSU Applications



<p><u>Engine</u> NT855</p> <p>6 cyl.,</p> <p>Piston :Al-fin, Round Combustion Chamber 105mm Liner : Fully-Finished</p>	<p><u>Bore</u> 139.70MM</p>	<p>3A39S02 KMKT2154200</p> 	<p>3L39S01-NP 6710-21-2210</p> <p><u>Cylinder Liner</u></p> <table border="0"> <tr><td>TL</td><td>288.0mm</td></tr> <tr><td>OD</td><td>155.5mm</td></tr> <tr><td>FD</td><td>167.0mm</td></tr> <tr><td>FH</td><td>9.0mm +2.0</td></tr> </table>	TL	288.0mm	OD	155.5mm	FD	167.0mm	FH	9.0mm +2.0	<p>3P39S02-A 215420</p> <p><u>Piston</u></p> <table border="0"> <tr><td>TL</td><td>152.8mm</td></tr> <tr><td>CH</td><td>95.8mm</td></tr> </table> <p><u>Piston Pin</u></p> <table border="0"> <tr><td>OD</td><td>50.8mm</td></tr> <tr><td>TL</td><td>119.0mm</td></tr> </table> 	TL	152.8mm	CH	95.8mm	OD	50.8mm	TL	119.0mm	<p>3B39S01 6710-31-3120</p> 	<p>3R39S01 6710-31-2033/cyl. 6710-31-2023 R18720</p> <p><u>Piston Ring</u></p> <table border="0"> <tr><td>RN 3.595</td><td></td></tr> <tr><td>RN 2.878</td><td></td></tr> <tr><td>RN 2.878</td><td></td></tr> <tr><td>FX 4.75</td><td></td></tr> </table>	RN 3.595		RN 2.878		RN 2.878		FX 4.75	
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