



# BLSH

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# H



Professional  
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Global  
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Quality  
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# To Be A Famous Manufacturer To Lead The Global Hydraulic Pump's Market.

Deep Plowing Hydraulic Gear Pump 25 Years,provide High-quality Products To Win Clients' Approval And Satisfaction.





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小松装载机系列/Komatsu Loader (WA) Series

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| 16 | 主泵/转向泵 Main/Steeringing Pump                | 705-11-33011    | WA100-1/WA120-3/WA120-3-T                 |
| 17 | 变速泵 Transmission Pump                       | 705-11-34060    | WA120-1                                   |
| 18 | 主泵 Main Pump                                | 705-11-34011    | WA120-1                                   |
| 19 | 变速泵 Transmission Pump                       | 705-73-29010    | WA100/120/150/180-1                       |
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| 21 | 变速泵 Transmission Pump                       | 705-73-30010    | WA120-3A/D/WA180-3                        |
| 22 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20070    | WA180-1.WA300-1                           |
| 23 | 主泵 Main Pump                                | 705-11-32210    | WA150-1/WA320-1LC/WA180-1/FD70-7/D61E-12  |
| 24 | 齿轮泵/油泵 Lift/Dump Pump                       | 705-51-20180    | WA150-1/WA180-3                           |
| 25 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-34690    | WA150-5R                                  |
| 26 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-57-21010    | WA180-3MC                                 |
| 27 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20150    | WA200-1/1C                                |
| 28 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20290    | WA200-1                                   |
| 29 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-52-20050    | WA200-1C PC80-1                           |
| 30 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20640    | WA200-1-A                                 |
| 31 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-26081    | WA200-5                                   |
| 32 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-26080    | WA200-5                                   |
| 33 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-26090    | WA200-6/WA200PZ-6                         |
| 34 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-36090    | WA200-6                                   |
| 35 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20090    | WA180-1/WA200-1                           |
| 36 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20240    | WA250-1                                   |
| 37 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20300    | WA250-1                                   |
| 38 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-13-28530    | WA250                                     |
| 39 | 转向泵 Steeringing Pump                        | 704-30-29110    | WA250LOC                                  |
| 40 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-57-21000    | WA250-3                                   |
| 41 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-22-35170    | WA250-6                                   |
| 42 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-38-32030    | WA250-6                                   |
| 43 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-41-04400    | WA250-6                                   |
| 44 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-41-05690    | WA250-6                                   |
| 45 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-36051    | WA250-5,WA270                             |
| 46 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-36040    | WA250-6                                   |
| 47 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-56-36082    | WA250-6                                   |
| 48 | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump       | 705-51-20400    | WA200-1/WA200-1C                          |
| 49 | 变速泵 Transmission Pump                       | 705-51-20170    | WA150/180/200-1/WA250-1/OC                |

小松装载机系列/Komatsu Loader (WA) Series

|     | 描述 Description                                | 型号 Parts number | 机型 Machine model            |
|-----|-----------------------------------------------|-----------------|-----------------------------|
| 50  | 变速泵 Transmission Pump                         | 705-11-30210    | WA180-1/WA200-1/WA250-1     |
| 51  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-20290    | WA250-3                     |
| 52  | 变速泵 Transmission Pump                         | 705-51-20390    | WA250-3/WA200-1-A WA150/250 |
| 53  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34090    | WA300-1                     |
| 54  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-22000    | WA300-1/WA320-1             |
| 55  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-20140    | WA300-1/WA320-1             |
| 56  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-20280    | WA300-1/WA320-1             |
| 57  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-32080    | WA320-1/WA320-1R            |
| 58  | 变速泵 Transmission Pump                         | 705-21-26060    | WA320-3                     |
| 59  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34160    | WA320-3/WA320-3X            |
| 60  | 变速泵 Transmission Pump                         | 705-51-20480    | WA320-3/WA320-3C/WA320-3AP  |
| 61  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-24130    | WA300/320-1/3CS/WA320-3DZ   |
| 62  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-32080    | WA320-1/1LC/1R              |
| 63  | 变速泵 Transmission Pump                         | 705-51-20430    | WA320-3CS.WA320-3DZ/WA320-3 |
| 64  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-36050    | WA320-6                     |
| 65  | 转向泵 Emergency Steeringing Pump                | 704-30-32110    | WA350-1                     |
| 66  | 变速泵 Transmission Pump                         | 705-11-35010    | WA350/380/400/420-1         |
| 67  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-52-30080    | WA350-1 WA350-0C            |
| 68  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-52-30190    | WA350-1M                    |
| 69  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-52-30220    | WA380-1/WA350-0C            |
| 70  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-34180    | WA380-1                     |
| 71  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-34090    | WA380-1                     |
| 72  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-11-35010    | WA380-1C                    |
| 73  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-11-35090    | WA380-1/WA420-1             |
| 74  | 齿轮泵 Pump Ass'y                                | 705-55-33070    | WA380-3                     |
| 75  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34180    | WA380-3                     |
| 76  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34140    | WA380-3                     |
| 77  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34190    | WA380-3                     |
| 78  | 变速泵 Transmission Pump                         | 705-51-20440    | WA380-3/WA380-3DZ/WA380-3C  |
| 79  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-34190    | WA380-3DZ                   |
| 80  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-51-30600    | WA380-5                     |
| 81  | 齿轮泵 Pump Ass'y                                | 705-21-39070    | WA380-5                     |
| 82  | 风扇泵 Fan Pump                                  | 705-21-28270    | WA380Z-6                    |
| 83  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-55-33080    | WA380-5/WA400-5             |
| 84  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-34240    | WA400-1                     |
| 85  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-34040    | WA400-1                     |
| 86  | 转向泵 Emergency Steeringing Pump                | 704-30-34110    | WA400-1/400-3/450-3/470-1   |
| 87  | 转向泵/齿轮总成 Steeringing And Switch Pump Assembly | 705-51-31170    | WA400-5L /WA400-5           |
| 88  | 齿轮泵/油泵/转向泵 Lift/Dump/Steeringing Pump         | 705-56-34100    | WA420-1                     |
| 89  | 变速泵 Transmission Pump                         | 705-22-40070    | WA420-3/450/470-3/WA500-1-A |
| 90  | 齿轮泵/转向泵 Switch/Steeringing Pump               | 705-52-30360    | WA420-3/HD255-5             |
| 91  | 齿轮泵/油泵/P.C.C.泵 Lift/Dump/P.C.C. Pump          | 705-52-30390    | WA420-3/WA420-3D            |
| 92  | 齿轮泵/转向泵 Switch/Steeringing Pump               | 705-52-30560    | WA420-3CS                   |
| 93  | 齿轮泵/油泵/P.C.C.泵 Lift/Dump/P.C.C. Pump          | 705-52-30550    | WA420-3CS                   |
| 94  | 齿轮泵/转向泵 Switch/Steeringing Pump               | 705-52-31150    | WA420-3CS                   |
| 95  | 齿轮泵/转向泵 Switch/Steeringing Pump               | 705-56-30560    | WA420-3CS                   |
| 96  | 齿轮泵/转向泵 Switch/Steeringing Pump               | 705-55-33100    | WA430-5-W                   |
| 97  | 转向泵/齿轮泵 Steeringing/Switch Pump               | 705-51-30710    | WA430-5C                    |
| 98  | 齿轮泵 Pump Ass'y                                | 705-21-42130    | WA430-6                     |
| 99  | 转向泵 Steeringing Pump                          | 705-12-37010    | WA450/470-1/WA450-1-A       |
| 100 | 转向泵 Steeringing Pump                          | 705-12-37040    | WA450/470-1/WA450-1-A       |
| 101 | 变速泵 Transmission Pump                         | 705-12-36010    | WA450/470-1/WA450-1-A       |





小松装载机系列/Komatsu Loader (WA) Series

|     | 描述Description                                      | 型号Parts number | 机型Machine model       |
|-----|----------------------------------------------------|----------------|-----------------------|
| 102 | 变速泵Transmission Pump                               | 705-12-40040   | WA450/470/500         |
| 103 | 齿轮泵/PC.C.泵Switch /P.C.C. Pump                      | 705-52-20240   | WA450/470-1           |
| 104 | 齿轮泵/PC.C.泵Switch /P.C.C. Pump                      | 705-52-20190   | WA450/470-1           |
| 105 | 齿轮泵/PC.C.泵Switch /P.C.C. Pump                      | 705-52-20100   | WA450/470-1/PC60-1    |
| 106 | 转向泵Steeringing Pump                                | 705-12-40010   | WA450/470-1/HD465-2-3 |
| 107 | 齿轮泵/油泵Lift/Dump Pump                               | 705-14-41040   | WA450/470-1/WA450-2   |
| 108 | 齿轮泵/油泵Lift/Dump Pump                               | 705-14-41010   | WA450-1/470-1/WA450-2 |
| 109 | 齿轮泵/油泵Lift/Dump Pump                               | 705-22-36060   | WA450-1-A             |
| 110 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-52-30280   | WA450-3/WA470-3       |
| 111 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-40130   | WA450-3/WA470-3       |
| 112 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-56-43020   | WA450-3               |
| 113 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-51-30580   | WA450-5L              |
| 114 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30580   | WA450-5L              |
| 115 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30810   | WA450-5L              |
| 116 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-21-42120   | WA450/WA480-6         |
| 117 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-52-20240   | WA470-1               |
| 118 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-52-20190   | WA470-1               |
| 119 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-52-20100   | WA470-1               |
| 120 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-51-20290   | WA470-1               |
| 121 | 齿轮泵/转向泵Switch/Steeringing Pump                     | 705-51-20090   | WA470-1               |
| 122 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-40150   | WA470-3DZ             |
| 123 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30280   | WA470-3-X             |
| 124 | 变速泵Transmission Pump                               | 705-52-40280   | WA470-3E              |
| 125 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30580   | WA470-5-W             |
| 126 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30810   | WA470-5-W             |
| 127 | 制动泵Break Pump                                      | 705-41-07210   | WA470-5C              |
| 128 | 齿轮泵Pump Ass'y                                      | 705-51-31140   | WA470-5S/N            |
| 129 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-51-30820   | WA470-6A/6AS          |
| 130 | 齿轮泵Pump Ass'y                                      | 705-55-43000   | WA480-3-W             |
| 131 | 工作泵Work Equipment Pump                             | 705-35-43640   | WA480-5               |
| 132 | 转向泵Steeringing And Switch Pump                     | 705-51-30590   | WA480-5W/5L           |
| 133 | 齿轮泵Pump Ass'y                                      | 705-51-31150   | WA480-5-W             |
| 134 | 齿轮泵Pump Ass'y                                      | 705-51-30590   | WA480-5-W             |
| 135 | 排气泵Return Pump                                     | 705-40-01020   | WA480-5-W             |
| 136 | 齿轮泵/油泵Lift/Dump Pump                               | 705-22-40110   | WA500-1               |
| 137 | 变速泵Transmission Pump                               | 705-12-38010   | WA500-1/3             |
| 138 | 转向泵Steeringing Pump                                | 705-52-30260   | WA500-1               |
| 139 | 转向泵Steeringing Pump                                | 705-52-30130   | WA500-1               |
| 140 | 齿轮泵Emerg.Steering                                  | 704-30-36110   | WA500-1C              |
| 141 | 转向泵Steeringing Pump                                | 705-52-31130   | WA500-1/3             |
| 142 | 装载机转向泵Loader Steeringing Pump                      | 705-56-34130   | WA500-1R              |
| 143 | 转向泵Steeringing Pump                                | 705-12-38011   | WA500-3               |
| 144 | 装载机泵Loader Pump                                    | 705-22-44070   | WA500-3               |
| 145 | 装载机泵Loader Pump                                    | 705-12-44040   | WA500-3               |
| 146 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-30490   | WA500-3/WA500-3C      |
| 147 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-12-44010   | WA500-3               |
| 148 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-22-44020   | WA500-3               |
| 149 | 齿轮泵Pump Ass'y                                      | 705-52-31230   | WA500-3C              |
| 150 | 齿轮泵Pump Ass'y                                      | 705-56-34710   | WA500-6               |
| 151 | 变速泵/润滑油泵/齿轮泵trans/lub/Switch Pump                  | 705-58-46001   | WA600-1               |
| 152 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-46000   | WA600-1               |
| 153 | 齿轮泵/油泵/转向泵/PC.C.泵Lift/Dump/Steeringing/P.C.C. Pump | 705-56-44000   | WA600-1               |

小松装载机系列/Komatsu Loader (WA) Series

|     | 描述Description                                      | 型号Parts number | 机型Machine model   |
|-----|----------------------------------------------------|----------------|-------------------|
| 154 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-57-46000   | WA600-1-A         |
| 155 | 装载机泵/转向泵/PC.C.泵Loader/Steeringing/P.C.C. Pump      | 705-58-47000   | WA600-1           |
| 156 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-31080   | WA600-3           |
| 157 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-53-31020   | WA600-3/WD600-3   |
| 158 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-53-42010   | WA600-3/WD600-3   |
| 159 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-53-42000   | WA600-3/WD600-3   |
| 160 | 变矩泵/PC.C.泵Torque Converter and P.C.C. Pump         | 705-23-30610   | WA600-3           |
| 161 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 704-30-42140   | WA600-3C          |
| 162 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-52-40150   | WA600-5/D2        |
| 163 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-46010   | WD600-1           |
| 164 | 齿轮泵/油泵/转向泵/PC.C.泵Lift/Dump/Steeringing/P.C.C. Pump | 705-56-44010   | WD600-1           |
| 165 | 齿轮泵/油泵/转向泵/PC.C.泵Lift/Dump/Steeringing/P.C.C. Pump | 705-56-44001   | WD600-1           |
| 166 | 装载机泵/转向泵/PC.C.泵Loader/Steeringing/P.C.C. Pump      | 705-56-47000   | WD600-3           |
| 167 | 齿轮泵/油泵/PC.C.泵Lift/Dump/P.C.C. Pump                 | 705-22-39020   | WD600-3           |
| 168 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-46020   | WD600-1           |
| 169 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-46050   | WD600-1           |
| 170 | 变速泵Transmission Pump                               | 705-51-12090   | WA600-6           |
| 171 | 变速泵Transmission Pump                               | 705-55-43040   | WD600-6           |
| 172 | 转向泵Steeringing Pump                                | 705-52-40080   | WD600-1           |
| 173 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-56-43010   | WA700-1R          |
| 174 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-43010   | WA800-1-2/WA900-1 |
| 175 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-45030   | WA800-3/WA900-3   |
| 176 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-45010   | WA800-3/WA900-3   |
| 177 | 排气泵Return Pump                                     | 705-41-02480   | WA900L-3          |
| 178 | 排气泵Return Pump                                     | 705-40-01041   | WA900L-3          |
| 179 | 变速泵/润滑油泵Trans/Lubr/Lev                             | 705-58-45040   | WA900L-3          |
| 180 | 装载机泵Loader Pump                                    | 705-11-22040   | WA1200-1          |
| 181 | 齿轮泵Pump Ass'y                                      | 705-21-26180   | WA1250-7          |
| 182 | 齿轮泵Pump Ass'y                                      | 705-21-26050   | WA1250-7          |

小松吊车系列/Komatsu Crane (LW) Series

|    | 描述Description                                  | 型号Parts number | 机型Machine model  |
|----|------------------------------------------------|----------------|------------------|
| 1  | 齿轮总成Pump Ass'y                                 | 705-51-10150   | LW80M-1          |
| 2  | 齿轮泵/PP.C. Pump                                 | 705-13-23530   | LW100-1          |
| 3  | 主泵/Main Pump                                   | 705-55-24110   | LW100-1H-1X      |
| 4  | 主泵/Main Pump                                   | 705-55-13020   | LW100-1H-1X      |
| 5  | 齿轮泵Pump Ass'y                                  | 705-11-34110   | LW160-1          |
| 6  | 转向泵Steeringing Pump                            | 705-11-21010   | LW160-1          |
| 7  | 转向泵Steeringing Pump                            | 705-51-20110   | LW160-1/LW200L-1 |
| 8  | 变速泵Transmission Pump                           | 705-12-29010   | LW160/200L-1     |
| 9  | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump | 705-55-23030   | LW250M-2H        |
| 10 | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump | 705-55-23020   | LW250L-1NH-1NX   |
| 11 | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump | 705-55-23020   | LW250L-1NH-1NX   |
| 12 | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump | 705-56-26030   | LW250-5H-5X      |
| 13 | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump | 705-56-34290   | LW250-5H-5X      |
| 14 | 转向泵Steeringing Pump                            | 705-56-23010   | LW250L-1H-1X     |
| 15 | 齿轮总成Pump Ass'y                                 | 705-52-30150   | LW250L-1H-1X     |
| 16 | 齿轮总成Pump Ass'y                                 | 705-51-30170   | LW250-1NH-1NX    |
| 17 | 齿轮总成Pump Ass'y                                 | 705-11-38210   | LW250L-1NH       |





小松挖掘机系列/Komatsu Excavator (PC) Series

|    | 描述 Description                   | 型号 Parts number | 机型 Machine model             |
|----|----------------------------------|-----------------|------------------------------|
| 1  | 齿轮泵 Pump Ass'y                   | 705-41-08070    | PC10-7/PC15-3/PC20-7         |
| 2  | 齿轮泵 Pump Ass'y                   | 705-41-08001    | PC20/30-6/PC38UU-1           |
| 3  | 齿轮泵 Pump Ass'y                   | 705-86-14060    | PC20-5/30-5                  |
| 4  | 齿轮泵 Pump Ass'y                   | 705-86-14000    | PC20-5/30-5                  |
| 5  | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-08080    | PC25-1/PC38UU-2              |
| 6  | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-02470    | PC27MR-1/PC28UU-3            |
| 7  | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-02320    | PC27/35MR-1/PC28UU-3         |
| 8  | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-02700    | PC27/30MR-3                  |
| 9  | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-08240    | PC28UU/UD/UG-2               |
| 10 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-08100    | PC28UU/UD/UG-2               |
| 11 | 齿轮泵/串联泵 Pump Ass'y/Tandem Pump   | 705-52-10070    | PC30-1                       |
| 12 | 齿轮泵 Pump Ass'y                   | 705-22-21000    | PC30-1                       |
| 13 | 齿轮泵 Pump Ass'y                   | 705-56-14000    | PC30-3/PC20-3                |
| 14 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-07500    | PC35MR-3                     |
| 15 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-07180    | PC35MR-2/3/PC38UU-3          |
| 16 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 708-35-04531    | PC40MR-1/PC45MRX-1           |
| 17 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 708-35-04570    | PC40/50/55MR-2/3             |
| 18 | 齿轮泵 Pump Ass'y                   | 705-54-20010    | PC40-3                       |
| 19 | 齿轮泵 Pump Ass'y                   | 705-41-08010    | PC40-6                       |
| 20 | 齿轮泵 Pump Ass'y                   | 705-41-08090    | PC40-7C/PC50UU-2             |
| 21 | 齿轮泵 Pump Ass'y                   | 705-41-02310    | PC40/45MR-1                  |
| 22 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-01920    | PC40R/45R-8                  |
| 23 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-07040    | PC45MRX/PC40MR               |
| 24 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-41-01620    | PC50UU/UD/UG/UUM-2           |
| 25 | 齿轮泵 Pump Ass'y                   | 705-52-20010    | PW60-1                       |
| 26 | 齿轮泵 Pump Ass'y                   | 705-58-24010    | PC60-2                       |
| 27 | 齿轮泵 Pump Ass'y                   | 705-56-24080    | PC60-3/PC60U-3               |
| 28 | 齿轮泵 Pump Ass'y                   | 704-24-24401    | PC60-5/PC75UU-1              |
| 29 | 齿轮泵/控制泵 P.C.C.Pump/ Control Pump | 705-40-01370    | PC75UD/UU-2                  |
| 30 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-24-29090    | PC75UU/UD-3/78US-5           |
| 31 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 705-22-30150    | PC75-3/PC95R-2/PC110R-1      |
| 32 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 708-3T-04610    | PC78UU-6/                    |
| 33 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 708-3T-04620    | PC78US/PC80MR                |
| 34 | 齿轮泵 Pump Ass'y                   | 705-52-20050    | PC80-1                       |
| 35 | 齿轮泵 Pump Ass'y                   | 705-54-20000    | PC80-1/PC40-1/PC40-2         |
| 36 | 齿轮泵 Pump Ass'y                   | 705-56-34000    | PC120-1/2                    |
| 37 | 变速泵 Transmission Pump            | 705-41-01540    | PW128UU-1                    |
| 38 | 齿轮泵 Pump Ass'y                   | 705-56-24090    | PC200-1/PC220-1              |
| 39 | 齿轮泵 Pump Ass'y                   | 705-56-24030    | PC200-1/PC220-1              |
| 40 | 齿轮泵 Pump Ass'y                   | 705-56-24020    | PC200-1/PC220-1              |
| 41 | 串联泵 Tandem Pump                  | 705-51-10020    | PC200/200LC-2                |
| 42 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 704-24-24420    | PC100L/120/200/210LC-6       |
| 43 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 704-24-28203    | PC200/WA700/PW210-1          |
| 44 | 齿轮泵 Pump Ass'y                   | 704-24-28230    | PC200/WA800/WA900            |
| 45 | 齿轮泵/主泵 Pump Ass'y/Main Pump      | 704-24-26430    | PC100/120/300-6/PC400-6      |
| 46 | 齿轮泵 Pump Ass'y                   | 705-52-21140    | PC600/650-6-7-6K-7K          |
| 47 | 齿轮泵 Pump Ass'y                   | 705-52-30011    | PC650-1                      |
| 48 | 齿轮泵 Pump Ass'y                   | 705-52-30010    | PC650-1                      |
| 49 | 齿轮泵 Pump Ass'y                   | 705-51-31060    | PC650-3-5/PC750/PC800/1800-6 |
| 50 | 齿轮泵 Pump Ass'y                   | 705-52-31070    | PC750-6-7/PC800-6-7          |
| 51 | 齿轮泵 Pump Ass'y                   | 705-56-34360    | PC1100-6/PC1250-6/PC1250-7   |
| 52 | 风扇泵 Fan Pump                     | 705-21-26050    | PC1250-7/PC1100-6            |

小松推土机系列/Komatsu Bulldozer (D) Series

|    | 描述 Description                     | 型号 Parts number | 机型 Machine model                         |
|----|------------------------------------|-----------------|------------------------------------------|
| 1  | 齿轮泵 Pump Ass'y                     | 07421-71401     | D20P/A                                   |
| 2  | 齿轮泵 Pump Ass'y                     | 705-61-28010    | D20P-7A                                  |
| 3  | 齿轮泵 Pump Ass'y                     | 113-15-00270    | D21P/31                                  |
| 4  | 齿轮泵 Pump Ass'y                     | 113-15-00470    | D21P/D31A-20                             |
| 5  | 齿轮泵 Pump Ass'y                     | 705-12-32110    | D30/31-17/D37-21                         |
| 6  | 工作泵 Work Pump                      | 705-21-28270    | D31-18/20/D37-5                          |
| 7  | 工作泵 Work Pump                      | 705-21-26180    | D31-20/D37-5                             |
| 8  | 齿轮泵 Pump Ass'y                     | 705-21-31020    | D31/37                                   |
| 9  | 齿轮泵 Pump Ass'y                     | 704-12-30100    | D31A                                     |
| 10 | 转向泵 Steering Pump                  | 705-11-33013    | D31E-17                                  |
| 11 | 转向泵 Steering Pump                  | 705-11-33016    | D31E-20                                  |
| 12 | 齿轮泵 Pump Ass'y                     | 705-11-20010    | D31Q/P/ DNP031-3                         |
| 13 | 工作泵 Work Pump                      | 705-52-21000    | D40A/40P/40PLL-3-5                       |
| 14 | 转向泵 Steering Pump                  | 705-12-32010    | D41-3/5/GD405A-1/GD505A-2                |
| 15 | 转向泵 Steering Pump                  | 705-12-32010    | D41-3/5/GD405A-1/GD505A-2                |
| 16 | 工作泵 Work Pump                      | 705-52-21070    | D41A-6/D41E-6/D41P-6                     |
| 17 | 主泵 Main Pump                       | 705-12-29630    | D41A/P/E-6                               |
| 18 | 齿轮泵 P.T.O Pump                     | 705-41-01370    | D41PF-6K                                 |
| 19 | 齿轮泵 Pump Ass'y                     | 705-52-21170    | D41P-6/D41E-6/D41E6T                     |
| 20 | 齿轮泵 Pump Ass'y                     | 705-12-34010    | D41S-3/GD705A-4                          |
| 21 | 串联泵 Tandem Pump                    | 07400-30200     | D50A/P                                   |
| 22 | 齿轮泵 Pump Ass'y                     | 704-12-38100    | D50A-16/18/17/D50P-18                    |
| 23 | 主离合器泵 Main Clutch Pump             | 07429-72302     | D50A/P                                   |
| 24 | 转向泵 Steering Pump                  | 07427-72400     | D50A                                     |
| 25 | 串联泵 Tandem Pump                    | 07400-40400     | D50A/P                                   |
| 26 | 主离合器泵 Main Clutch Pump             | 07426-71400     | D50P                                     |
| 27 | 齿轮泵 Pump Ass'y                     | 07437-71301     | D50P/S                                   |
| 28 | 转向泵 Steering Pump                  | 07429-71300     | D50P                                     |
| 29 | 主离合器泵 Main Clutch Pump             | 07437-71300     | D50P/S                                   |
| 30 | 齿轮泵 Pump Ass'y                     | 07438-67301     | D50P/S                                   |
| 31 | 液压泵 Pump Ass'y,Hydraulic           | 704-11-38100    | D53A-16/18/ D58E-1                       |
| 32 | 齿轮泵 Pump Ass'y                     | 07432-72203     | D58/53                                   |
| 33 | 齿轮泵 Pump Ass'y                     | 704-11-38100    | D58P-1/D53S-16                           |
| 34 | 转向泵 Steering Pump                  | 07429-71203     | D58P/53/57                               |
| 35 | 液压泵 Hydraulic Pump                 | 07441-67503     | D60/65/70                                |
| 36 | 工作泵 Work Pump                      | 07443-67503     | D60/D65                                  |
| 37 | 串联泵 Tandem Pump                    | 07400-40500     | D60A/P/70                                |
| 38 | 转向泵 Steering Pump                  | 07430-72301     | D60E/P                                   |
| 39 | 动力泵 Power Pump                     | 705-51-20370    | D60P/D65E/70-12/D85ESS-2                 |
| 40 | 齿轮泵 P.C.C. Pump                    | 705-41-01320    | D60P/65E-12/D85ESS-2                     |
| 41 | 齿轮泵 P.C.C. Pump                    | 705-41-01020    | D60P/D61EX/PX-12/D68ESS-12               |
| 42 | 齿轮泵 Pump Ass'y                     | 705-41-01200    | D61/65EX/65P/68E-12/D85ES-2              |
| 43 | 齿轮泵/油泵/转向泵 Lift/Dump/Steering Pump | 705-51-20640    | D61E-12/D61EX-12/D61PX-12/D68ESS-12      |
| 44 | 动力泵 Power Pump                     | 705-51-20830    | D63E-12/D65-15/16/17/D68ESS-12           |
| 45 | 齿轮泵 P.C.C.Pump                     | 705-41-01050    | D65-12/D85ESS-2/D155A-2A                 |
| 46 | 齿轮泵 Pump Ass'y                     | 705-11-33530    | D65/D70/D70LE-12/D65PX-12U/D85ESS-2A     |
| 47 | 液压泵 Hydraulic Pump                 | 07441-67502     | D65/HD460                                |
| 48 | 齿轮泵 Pump Ass'y                     | 175-13-23500    | D65/355/D85A-21/D135A/155A-2/HD200/205-2 |
| 49 | 齿轮泵/油泵/转向泵 Lift/Dump/Steering Pump | 705-51-20800    | D65E-12/D65P-12/D85ESS-2-2A              |
| 50 | 齿轮泵/油泵/转向泵 Lift/Dump/Steering Pump | 705-51-20930    | D65E-12/D65P-12/D85ESS-2-2A-3            |
| 51 | 齿轮泵 Pump Ass'y                     | 07432-71200     | D65S/A                                   |
| 52 | 齿轮泵 Pump Ass'y                     | 07430-72203     | D65S                                     |

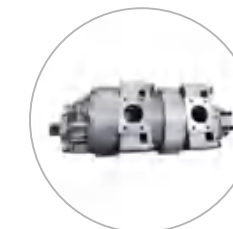
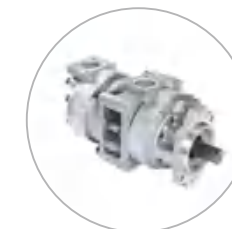
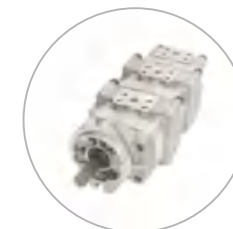


## 小松推土机系列/Komatsu Bulldozer (D) Series

|     | 描述 Description                     | 型号 Parts number | 机型 Machine model                      |
|-----|------------------------------------|-----------------|---------------------------------------|
| 53  | 齿轮泵 Pump Ass'y                     | 07432-71201     | D65S/95S                              |
| 54  | 齿轮泵 Pump Ass'y                     | 705-11-36010    | D68ESS-12/D61E-12/D63E-12/HD205-3     |
| 55  | 齿轮泵 Pump Ass'y                     | 705-11-36000    | D68ESS-12                             |
| 56  | 齿轮泵 Pump Ass'y                     | 14X-49-11600    | D68ESS-12/D70LE-12/D65PX-12U/D85ESS-2 |
| 57  | 齿轮泵 Pump Ass'y                     | 705-11-40010    | D65/65/70-12/D85-2                    |
| 58  | 齿轮泵 Pump Ass'y                     | 705-11-38010    | D70LE-12/D85-2-3/D60P/65P-12E         |
| 59  | 齿轮泵 Pump Ass'y                     | 705-11-33210    | D70LE-12/D65PX-12U/D85ESS-2A          |
| 60  | 齿轮泵 Pump Ass'y                     | 705-11-38010    | D70LE-12/ 540-1/B /D85ESS-2/D60P-12   |
| 61  | 转向泵 Steering Pump                  | 07428-71202     | D75S-2                                |
| 62  | 变速泵 Transmission Pump              | 705-12-44010    | D75S-5/HD785-1/2/WA500-3/D155AX-5     |
| 63  | 工作泵 Work Pump                      | 07443-67103     | D75S                                  |
| 64  | 液压泵 Hydraulic Pump                 | 07443-67100     | D75S-2                                |
| 65  | 齿轮泵 Pump Ass'y                     | 07432-72202     | D75S-2                                |
| 66  | 变速泵 Transmission Pump              | 07432-71300     | D75S                                  |
| 67  | 齿轮泵 Pump Ass'y                     | 07400-30100     | D75S-3                                |
| 68  | 主离合器泵 Main Clutch Pump             | 07431-11100     | D80A/P                                |
| 69  | 水泵 Water Pump                      | 6865-61-1024    | D85                                   |
| 70  | 水泵 Water Pump                      | 6685-61-1024    | D85                                   |
| 71  | 齿轮泵 Pump Ass'y                     | 07436-72902     | D85A-18                               |
| 72  | 转向泵 Steering Pump                  | 07436-72202     | D85A-18                               |
| 73  | 齿轮泵/油泵/转向泵 Lift/Dump/Steering Pump | 705-51-30240    | D85P-21A/D135A-1-2                    |
| 74  | 工作泵 Work Pump                      | 705-51-30190    | D85A-21/D85E-21/D85P-21               |
| 75  | 齿轮泵 Pump Ass'y                     | 07429-72101     | D85A/P/65/155                         |
| 76  | 工作泵 Work Pump                      | 705-13-31730    | D85A/E/P-21                           |
| 77  | 变速泵 Transmission Pump              | 705-21-32051    | D85A/85E/85P-21                       |
| 78  | 变速泵 Transmission Pump              | 705-21-32050    | D85A/85E/85P-21                       |
| 79  | 变速泵 Transmission Pump              | 705-21-32050    | D85A-21                               |
| 80  | 动力泵 Power Pump                     | 705-51-30660    | D85-15/18                             |
| 81  | 工作泵 Work Pump                      | 07444-66103     | D85A/80P                              |
| 82  | 工作泵 Work Pump                      | 07444-66101     | D85A/80P                              |
| 83  | 齿轮泵 Pump Ass'y                     | 705-11-38210    | D85E-21/D66S-1/D155-5/LW250L-1        |
| 84  | 变速泵 Transmission Pump              | 705-22-38050    | D85EX/85PX-15/HD325/405-6             |
| 85  | 转向泵 Steering Pump                  | 07432-72101     | D85/80A                               |
| 86  | 齿轮泵 Pump Ass'y                     | 07432-71203     | D85A/80A/75A                          |
| 87  | 齿轮泵 Pump Ass'y                     | 07437-72101     | D85/155                               |
| 88  | 调节阀 Control Valve A.               | 154-15-00142    | D85A/D95S-2/D85E                      |
| 89  | 变速泵 Transmission Pump              | 07433-71103     | D85/155/135A/S                        |
| 90  | 变速泵 Transmission Pump              | 07446-66104     | D150/155                              |
| 91  | 齿轮泵 Pump Ass'y                     | 705-55-34580    | D155AX-5                              |
| 92  | 工作泵 Work Pump                      | 705-52-30A00    | D155A-6-6R/D155AX-6-7-8/D155AX-6A     |
| 93  | 工作泵 Work Pump                      | 705-51-30360    | D155AX-3                              |
| 94  | 动力泵 Power Pump                     | 705-51-30290    | D155A-3-5/D155AX-5                    |
| 95  | 齿轮泵 Pump Ass'y                     | 705-22-43070    | D155AX-6/7/8                          |
| 96  | 排气泵 Scavenging Pump                | 705-22-42090    | D155A-6                               |
| 97  | 齿轮泵 Pump Ass'y                     | 705-52-40160    | D155A-3/D155A-5                       |
| 98  | 齿轮泵 Pump Ass'y                     | 17A-49-11100    | D155A-3/5                             |
| 99  | 工作泵 Work Pump                      | 07446-66200     | D155A                                 |
| 100 | 工作泵 Work Pump                      | 07446-66103     | D155A-1 D155C-1                       |
| 101 | 齿轮泵 Pump Ass'y                     | 07446-66102     | D155A                                 |
| 102 | 液压泵 Hydraulic Pump                 | 07440-72202     | D155/150                              |
| 103 | 齿轮泵 Pump Ass'y                     | 07436-66102     | D155C-1C                              |
| 104 | 工作泵 Work Pump                      | 705-52-30920    | D275A-5-5D-5R/D275AX-5                |

## 小松推土机系列/Komatsu Bulldozer (D) Series

|     | 描述 Description           | 型号 Parts number     | 机型 Machine model    |
|-----|--------------------------|---------------------|---------------------|
| 105 | 工作泵 Work Pump            | 705-52-30250        | D275A-2             |
| 106 | 齿轮泵 Pump Ass'y           | 195-49-34100        | D275A/375A          |
| 107 | 工作泵 Work Pump            | 07448-66500         | D355A               |
| 108 | 工作泵 Work Pump            | 07448-66200         | D355A               |
| 109 | 工作泵 Work Pump            | 07448-66108         | D355                |
| 110 | 工作泵 Work Pump            | 07448-66107 (66102) | D355-3              |
| 111 | 转向泵 Steering Pump        | 07442-71802         | D355A/C             |
| 112 | 转向泵 Steering Pump        | 07442-71102         | D355A               |
| 113 | 变速泵 Transmission Pump    | 07438-72902         | D355C-3             |
| 114 | 变速泵 Transmission Pump    | 07438-72202         | D355C-3             |
| 115 | 工作泵 Work Pump            | 07436-66800         | D355C-3S/N/D155C-1C |
| 116 | 变速泵 Transmission Pump    | 07434-72902         | D355C-1C            |
| 117 | 齿轮泵 Pump Ass'y           | 07434-72202         | D355C-1C            |
| 118 | 变速泵 Transmission Pump    | 07434-72201         | D355C-1C            |
| 119 | 齿轮泵 Pump Ass'y           | 198-49-34100        | D375A-6/D475A-1/    |
| 120 | 齿轮泵 Pump Ass'y           | 705-58-44050        | D375A-3/D375A-5     |
| 121 | 齿轮泵 Pump Ass'y           | 705-58-44000        | D575A-2/D575A-3     |
| 122 | 齿轮泵 Pump Ass'y           | 705-52-40100        | D375A-2/5           |
| 123 | 齿轮泵 Pump Ass'y           | 705-52-40000        | D375A-1             |
| 124 | 转向泵 Steering Pump        | 07442-72202         | D455A               |
| 125 | 齿轮泵 Pump Ass'y           | 705-12-43030        | D455A-1             |
| 126 | 风扇泵 Fan Drive Motor Pump | 705-21-43010        | D475A-1/2           |
| 127 | 风扇泵 Fan Drive Motor Pump | 705-21-43000        | D475A-1             |
| 128 | 齿轮泵 Pump Ass'y           | 704-71-44071        | D475A-5SD           |
| 129 | 齿轮泵 Pump Ass'y           | 704-71-44050        | D475A-3             |
| 130 | 齿轮泵 Pump Ass'y           | 704-71-44012        | D475-2              |
| 131 | 齿轮泵 Pump Ass'y           | 704-71-44002        | D475A-2             |
| 132 | 齿轮泵 Pump Ass'y           | 705-52-42170        | D475A-2             |
| 133 | 齿轮泵 Pump Ass'y           | 705-52-42110        | D475A-1/2           |
| 134 | 齿轮泵 Pump Ass'y           | 705-52-42000        | D475A-1             |
| 135 | 齿轮泵 Pump Ass'y           | 705-52-40290        | D475A-3             |
| 136 | 齿轮泵 Pump Ass'y           | 705-52-40250        | D475A-3             |
| 137 | 工作泵 Work Pump            | 705-52-30580        | D475A-3             |
| 138 | 风扇泵 Fan Pump             | 705-52-30240        | D475A-1/D475A-2     |
| 139 | 工作泵 Work Pump            | 705-51-42080        | D575A-2-3           |
| 140 | 工作泵 Work Pump            | 705-51-42070        | D575A-2             |
| 141 | 工作泵 Work Pump            | 705-51-42060        | D575A-2             |
| 142 | 齿轮泵 Pump Ass'y           | 705-51-42050        | D575A-2-3/D575A-3-M |
| 143 | 齿轮泵 Pump Ass'y           | 705-22-48010        | D575A-2/3           |
| 144 | 工作泵 Work Pump            | 705-21-46020        | D575A-2/3           |





小松平地机系列/Komatsu Grader (GD) Series

|    | 描述 Description                    | 型号 Parts number | 机型 Machine model            |
|----|-----------------------------------|-----------------|-----------------------------|
| 1  | 液压泵Hydraulic Pump                 | 07430-66100     | GD37-6/GD40/GD705R-2        |
| 2  | 齿轮泵Pump Ass'y                     | 705-52-10030    | GD405A-1                    |
| 3  | 转向泵Steeringing Pump               | 705-12-29010    | GD405A-1/GD505A-2           |
| 4  | 转向泵Steeringing Pump               | 705-51-21040    | GD500R-2A                   |
| 5  | 串联泵Tandem Pump                    | 705-51-10010    | GD500R-2A                   |
| 6  | 液压泵Hydraulic Pump                 | 705-52-10050    | GD505A-2/GD600R/605A/655A-3 |
| 7  | 转向泵Steeringing Pump               | 705-12-32010    | GD505A-2                    |
| 8  | 转向泵Steeringing Pump               | 705-12-32010    | GD505A-2                    |
| 9  | 齿轮泵Pump Ass'y                     | 705-11-33015    | GD505A-C                    |
| 10 | 液压泵Hydraulic Pump                 | 705-11-33014    | GD505A-2                    |
| 11 | 液压泵Hydraulic Pump                 | 23A-60-11301    | GD510R-1                    |
| 12 | 变速泵Transmission Pump              | 23A-60-11400    | GD510R-1                    |
| 13 | 主泵Main Pump                       | 23A-60-11100    | GD511A-1/GD521A-1           |
| 14 | 变速泵Transmission Pump              | 23A-60-11200    | GD521A-1/GD611/661A-1       |
| 15 | 工作泵Work Pump                      | 23B-60-11100    | GD521A/611/661A-1           |
| 16 | 变速泵Transmission Pump              | 23B-60-11200    | GD525A-1                    |
| 17 | 液压泵Hydraulic Pump                 | 23B-60-11301    | GD525A-1                    |
| 18 | 液压泵/转向泵Hydraulic Steeringing Pump | 705-52-21250    | GD555/655/675-5             |
| 19 | 液压泵/转向泵Hydraulic Steeringing Pump | 705-52-21160    | GD555/GD655/675-3/3A        |
| 20 | 齿轮泵Pump Ass'y                     | 705-22-36260    | GD555/655/675-3             |
| 21 | 串联泵Tandem Pump Ass'y              | 704-56-11101    | GD600R-1/GD605A             |
| 22 | 液压泵Hydraulic Pump                 | 705-52-10001    | GD605A-3                    |
| 23 | 液压泵Hydraulic Pump                 | 23B-60-11102    | GD605A/GD623A/GD611A        |
| 24 | 齿轮泵Pump Ass'y                     | 23A-60-11203    | GD605A/GD623A/GD611A        |
| 25 | 齿轮泵Pump Ass'y                     | 705-12-35010    | GD705                       |
| 26 | 液压泵Hydraulic Pump                 | 07430-67100     | GD705/40HT                  |
| 27 | 液压泵Hydraulic Pump                 | 07430-66100     | GD705/37                    |
| 28 | 齿轮泵Pump Ass'y                     | 234-60-65100    | GD705A                      |
| 29 | 齿轮泵Pump Ass'y                     | 234-60-65400    | GD705A                      |
| 30 | 转向泵Steeringing Pump               | 705-24-30010    | GD705A-3/4                  |
| 31 | 变矩泵Pump Ass'y                     | 705-52-20160    | GD705A-4                    |
| 32 | 起重泵/转向泵Hoist/Steeringing Pump     | 705-52-20090    | GD705A-3-4-3A-4A            |
| 33 | 齿轮泵Pump Ass'y                     | 705-11-34060    | GD705A-4                    |
| 34 | 变速泵Transmission Pump              | 705-12-36011    | GD805A-1/GD825A-2           |

小松叉车系列/Komatsu Forklift (FD) Series

|   | 描述 Description | 型号 Parts number | 机型 Machine model          |
|---|----------------|-----------------|---------------------------|
| 1 | 齿轮总成Pump Ass'y | 3FE-60-19110    | F4EC-1 F5EC-1 F6EC-1      |
| 2 | 齿轮总成Pump Ass'y | 3FE-60-32110    | FD100/115/135/150/160-7/8 |
| 3 | 齿轮总成Pump Ass'y | 3EC-60-15510    | FD50/60-7                 |
| 4 | 齿轮总成Pump Ass'y | 705-51-20560    | FD70-7 FD80-7/8           |
| 5 | 齿轮总成Pump Ass'y | 3FD-60-21510    | FD50/60-7                 |
| 6 | 齿轮总成Pump Ass'y | 3FD-60-21310    | FD70-7                    |
| 7 | 齿轮总成Pump Ass'y | 3FD-60-21920    | FD70-7 FD80-7/8           |
| 8 | 齿轮总成Pump Ass'y | 3EF-60-61410    | FD200Z-6                  |
| 9 | 齿轮总成Pump Ass'y | 3EE-60-21510    | FD135-6 FD160E-6          |

小松自卸车系列/Komatsu Dumper (HD&HM) Series

|    | 描述 Description                                    | 型号 Parts number              | 机型 Machine model                        |
|----|---------------------------------------------------|------------------------------|-----------------------------------------|
| 1  | 起重泵Hoist Pump                                     | 705-11-38110                 | HD200D                                  |
| 2  | 变速泵Transmission Pump                              | 705-11-29010                 | HD200D                                  |
| 3  | 制动冷却泵Brake cooling Pump                           | 705-11-36010                 | HD205-3                                 |
| 4  | 转向泵Steeringing Pump                               | 705-11-23010                 | HD205/320/465-3/HD255/325/605-5/HD405-6 |
| 5  | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-52-22000                 | HD205-3                                 |
| 6  | 制动冷却泵/变速泵Brakecooling/TransmissionPump            | 705-22-36060                 | HD205-3/HD325-5/WA450-2                 |
| 7  | 制动冷却泵/变速泵Brake cooling/TransmissionPump           | 705-12-36010                 | HD205-3/HD320-3/HD325-3-5               |
| 8  | 起重泵转向泵Hoist And Steeringing Pump                  | 705-52-30360                 | HD255-5                                 |
| 9  | 起重泵转向泵Hoist And Steeringing Pump                  | 705-14-34530                 | HD320-3/325-3                           |
| 10 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-52-30050                 | HD320-3/HD325-3                         |
| 11 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-52-30040                 | HD320-3/HD325-3-5                       |
| 12 | 变速泵Transmission Pump                              | 07439-66103                  | HD320-2/HD325-2                         |
| 13 | 变速泵Transmission Pump                              | 705-12-36011                 | HD325-5                                 |
| 14 | 变速泵Transmission Pump                              | 705-12-38000                 | HD325-6                                 |
| 15 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-52-30051                 | HD325-5-6-6W/HD405-6                    |
| 16 | 变速泵Transmission Pump                              | 705-22-38050                 | HD325/405-6                             |
| 17 | 变速泵Transmission Pump                              | 705-12-40010                 | HD465-2-3                               |
| 18 | 齿轮总成Pump Ass'y                                    | 705-52-32000                 | HD465-2                                 |
| 19 | 转向泵起重泵制动泵Steeringing Hoist And Brake Pump         | 705-12-38211                 | HD465-3-5-7/HD695-5-7/HM350-1           |
| 20 | 转向泵起重泵制动泵Steeringing Hoist And Brake Pump         | 705-52-32001                 | HD465-3/HD605-5                         |
| 21 | 变矩泵转向泵刹车泵Torque Converter/Transmission/Brake Pump | 705-22-28310                 | HD465/605-7R                            |
| 22 | 齿轮总成Pump Ass'y                                    | 705-52-31170                 | HD465/605-7                             |
| 23 | 变矩泵转向泵刹车泵Torque Converter/Transmission/Brake Pump | 705-52-31010                 | HD465/605-7                             |
| 24 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-56-34630                 | HD465/605-7                             |
| 25 | 变矩泵转向泵刹车泵Torque Converter/Transmission/Brake Pump | 705-95-05140                 | HD465/605-7E0/7R                        |
| 26 | 齿轮总成Pump Ass'y                                    | 705-95-07100                 | HD465/605-7E0/7R                        |
| 27 | 齿轮总成Pump Ass'y                                    | 705-95-03020                 | HD465/605-7E0/7R                        |
| 28 | 齿轮总成Pump Ass'y                                    | 705-95-03021                 | HD465/605-7E0/7R                        |
| 29 | 变速泵Transmission Pump                              | 705-12-44010                 | HD785-1/2                               |
| 30 | 转向泵起重泵制动泵Steeringing Hoist And Brake Pump         | 705-51-42010                 | HD785-2                                 |
| 31 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-52-42100                 | HD785-3/5 HD985-3/5                     |
| 32 | 制动冷却泵Brake cooling Pump                           | 705-52-42090                 | HD785-3/5 HD985-3/5                     |
| 33 | 变矩泵转向泵刹车泵Torque Converter/Transmission/Brake Pump | 705-52-42220                 | HD785-7                                 |
| 34 | 起重泵/转向泵/变速泵Hoist/Steeringing/Transmission Pump    | 705-56-44090                 | HD785-7                                 |
| 35 | 主泵/Main Pump                                      | 705-95-07120                 | HD785-7                                 |
| 36 | 主泵/Main Pump                                      | 705-95-07121                 | HD785-7                                 |
| 37 | 转向泵Steeringing Pump                               | 705-11-28010                 | HD785/985-3-5                           |
| 38 | 制动冷却泵Brake cooling Pump                           | 705-95-05130                 | HM250/300-2                             |
| 39 | 起重泵/转向泵Hoist/Steeringing Pump                     | 705-95-07020                 | HM250/300-2                             |
| 40 | 齿轮总成Pump Ass'y                                    | 705-95-01020                 | HM250/300-2                             |
| 41 | 齿轮总成Pump Ass'y                                    | 705-22-39020                 | HM300-1-1L                              |
| 42 | 齿轮总成Pump Ass'y                                    | 705-52-31180                 | HM300-1-1L                              |
| 43 | 齿轮总成Pump Ass'y                                    | 705-56-34550                 | HM300-1-1L                              |
| 44 | 齿轮总成Pump Ass'y                                    | 705-12-38011                 | HM350-1-1L                              |
| 45 | 齿轮总成Pump Ass'y                                    | 705-52-31210                 | HM350-1-1L                              |
| 46 | 齿轮总成Pump Ass'y                                    | 705-56-34590                 | HM350-1-1L                              |
| 47 | 齿轮总成Pump Ass'y                                    | 705-56-33050                 | HM350-1-1L                              |
| 48 | 制动冷却泵Brake cooling Pump                           | 705-41-07051                 | HM350/400-1-2                           |
| 49 | 齿轮总成Pump Ass'y                                    | 705-22-40110                 | HM400-1                                 |
| 50 | 齿轮总成Pump Ass'y                                    | 705-52-31150                 | HM400-1-1L                              |
| 51 | 齿轮总成Pump Ass'y                                    | 705-56-34490                 | HM400-1-1L                              |
| 52 | 齿轮总成Pump Ass'y                                    | 705-56-33080                 | HM400-1-1L                              |
| 53 | 齿轮总成Pump Ass'y                                    | 705-56-33040                 | HM400-1-1L                              |
| 54 | 齿轮总成Pump Ass'y                                    | 705-95-07040                 | HM400-2-2R                              |
| 55 | 齿轮总成Pump Ass'y                                    | 705-95-05110                 | HM400-2-2R                              |
| 56 | 齿轮总成Pump Ass'y                                    | 705-95-07030<br>705-95-07031 | HM400-2-2R                              |





川崎系列/Kawasaki Series

|    | 描述 Description    | 型号 Parts number                                      | 机型 Machine model |
|----|-------------------|------------------------------------------------------|------------------|
| 1  | 川崎泵 Kawasaki Pump | 44093-60730                                          | 60ZIV            |
| 2  | 川崎泵 Kawasaki Pump | 44083-61000                                          | 65ZV             |
| 3  | 川崎泵 Kawasaki Pump | 48976-60530                                          | 70ZV             |
| 4  | 川崎泵 Kawasaki Pump | 44083-61020                                          | 80ZV             |
| 5  | 川崎泵 Kawasaki Pump | 44083-60490                                          | 80ZV-2           |
| 6  | 川崎泵 Kawasaki Pump | 44083-61030                                          | 80ZV-2           |
| 7  | 川崎泵 Kawasaki Pump | 44083-61590                                          | 80ZV-2           |
| 8  | 川崎泵 Kawasaki Pump | 44083-60160                                          | 85ZV             |
| 9  | 川崎泵 Kawasaki Pump | 44083-60740                                          | 85ZIV-2          |
| 10 | 川崎泵 Kawasaki Pump | 44083-61860                                          | 90ZIV-2          |
| 11 | 川崎泵 Kawasaki Pump | 44083-61480                                          | 90ZIV-2          |
| 12 | 川崎泵 Kawasaki Pump | 44083-60410                                          | 90ZV-2           |
| 13 | 川崎泵 Kawasaki Pump | 44081-20150                                          | 85ZV             |
| 14 | 川崎泵 Kawasaki Pump | 44083-6207                                           |                  |
| 15 | 川崎泵 Kawasaki Pump | 1PA1911Q3B26A                                        |                  |
| 16 | 川崎泵 Kawasaki Pump | 18PL240304BK-4                                       |                  |
| 17 | 川崎泵 Kawasaki Pump | 11610-71100                                          |                  |
| 18 | 川崎泵 Kawasaki Pump | PHS3580H-A6X-0013                                    |                  |
| 19 | 川崎泵 Kawasaki Pump | 17PL220316A-9PL170702A                               |                  |
| 20 | 川崎泵 Kawasaki Pump | KLD115Z 22PL220319A-17PL220704A B0319141071 PA1911Q3 |                  |
| 21 | 川崎泵 Kawasaki Pump | B0319141071                                          |                  |
| 22 | 川崎泵 Kawasaki Pump | PA1911Q3B26A                                         |                  |
| 23 | 川崎泵 Kawasaki Pump | KLD80Z                                               |                  |
| 24 | 川崎泵 Kawasaki Pump | 17PL220316A-9PL170702A                               |                  |
| 25 | 川崎泵 Kawasaki Pump | 22PL220319A-17PL220704A                              |                  |
| 26 | 川崎泵 Kawasaki Pump | 1PA1911Q3B26A                                        |                  |
| 27 | 川崎泵 Kawasaki Pump | 18PL240304BK-4                                       |                  |
| 28 | 川崎泵 Kawasaki Pump | PHS3580H-A6X-0013                                    |                  |
| 29 | 川崎泵 Kawasaki Pump | KLD80Z B0319141071 PA1911Q3B26A                      |                  |
| 30 | 川崎泵 Kawasaki Pump | B0319141071 PA1911Q3B26A KLD80Z 17PL220316A          |                  |
| 31 | 川崎泵 Kawasaki Pump | PAP191111Q32B1 PAP191111Q32B2H2D2                    |                  |
| 32 | 川崎泵 Kawasaki Pump | PAP191111Q32B1                                       |                  |
| 33 | 川崎泵 Kawasaki Pump | PAP191111Q32B2H2D2                                   |                  |
| 34 | 川崎泵 Kawasaki Pump | 17PL220316A-9PL170702A                               |                  |
| 35 | 川崎泵 Kawasaki Pump | KLD110Z 33PL24030BK-15PL190703B KLD115Z 22PL220319A  |                  |
| 36 | 川崎泵 Kawasaki Pump | YT28PL240011                                         |                  |
| 37 | 川崎泵 Kawasaki Pump | KLD80Z B0319141071 PA1911Q3B26A                      |                  |
| 38 | 川崎泵 Kawasaki Pump | PHS3580H-A6X-0013                                    |                  |
| 39 | 川崎泵 Kawasaki Pump | 8PR 2203120 17PR 220611B 712B 8507009                |                  |

卡特系列/Cat Series

|   | 描述 Description | 型号 Parts number | 机型 Machine model |
|---|----------------|-----------------|------------------|
| 1 | 卡特CAT Pump     | 2P9239          | CAT              |
| 2 | 卡特CAT Pump     | 3P6814          | CAT              |
| 3 | 卡特CAT Pump     | 3P6816          | CAT              |
| 4 | 卡特CAT Pump     | 3G4768          | CAT              |
| 5 | 卡特CAT Pump     | 4N4864          | CAT              |
| 6 | 卡特CAT Pump     | 5M7864          | CAT              |
| 7 | 卡特CAT Pump     | 7S4629          | CAT              |

派克系列/Parker Series

|    | 描述 Description  | 型号 Parts number          | 机型 Machine model        |
|----|-----------------|--------------------------|-------------------------|
| 1  | 派克Parker Pump   | 332/E6671                | 派克Parker                |
| 2  | 派克Parker Pump   | 332/F9030                | 派克Parker(36/29)         |
| 3  | 派克Parker Pump   | 332/G7135                | 派克Parker(36/29) JCB 3CX |
| 4  | 派克Parker Pump   | 332/F9029                | 派克Parker(36/26)         |
| 5  | 派克Parker Pump   | 332/F9028                | 派克Parker(33/23)         |
| 6  | 派克Parker Pump   | 332/F9031                | 派克Parker(29/23)         |
| 7  | 派克Parker Pump   | 332/F9032                | 派克Parker                |
| 8  | 派克Parker Pump   | 333/G5390                | 派克Parker(36/29)         |
| 9  | 派克Parker Pump   | 333/G5391                | 派克Parker(29/23)         |
| 10 | 派克Parker Pump   | 20/951275                | 派克Parker                |
| 11 | 派克Parker Pump   | 20/925586                | 派克Parker(37/33)         |
| 12 | 派克Parker Pump   | 20/925580                | 派克Parker                |
| 13 | 派克Parker Pump   | 20/925338                | 派克Parker(33/23)JCB 3CX  |
| 14 | 派克Parker        | 20/912800                | 派克Parker (33/29) JCB3CX |
| 15 | 派克Parker        | 20/908700                | 派克Parker(50)            |
| 16 | 派克Parker Pump   | 20/906800                | 派克Parker                |
| 17 | 派克Parker Pump   | 20/903700                | 派克Parker                |
| 18 | 派克Parker Pump   | 20/903100                | 派克Parker(33/29)         |
| 19 | 派克Parker Pump   | 20/925579                | 派克Parker(36/26)         |
| 20 | 派克Parker Pump   | 20/925578 OEM(1032-1023) | 派克Parker(32/23)         |
| 21 | 派克Parker Pump   | 20/902900 OEM(1033-1029) | 派克Parker(33/29)         |
| 22 | 派克Parker        | 20/902000                | 派克Parker                |
| 23 | 派克Parker        | 1037-1033                | JCB117011(37/33)        |
| 24 | 派克Parker Pump   | 1036-1029                | JCB 98923(36/29)        |
| 25 | 派克Parker Pump   | 20/925803                | 派克Parker                |
| 26 | 派克Parker Pump   | 20/925339                | 派克Parker(36/26) JCB 3CX |
| 27 | 派克Parker Pump   | 20/925581                | 派克Parker(37/33)         |
| 28 | 派克Parker Pump   | 20/925340                | 派克Parker(41/26)         |
| 29 | 派克Parker Pump   | 20/925341                | 派克Parker(41/26)         |
| 30 | 派克Parker Pump   | 20/925332                | 派克Parker                |
| 31 | 派克Parker Pump   | 20/903200                | 派克Parker(41/29)         |
| 32 | 派克Parker Pump   | 20/911200                | 派克Parker(41/29)         |
| 33 | 派克Parker Pump   | 20/903300                | 派克Parker(33/29)         |
| 34 | 派克Parker Pump   | 20/903100                | 派克Parker(33/29)         |
| 35 | 派克Parker(33/29) | 20/903000                | 派克Parker(33/29)         |
| 36 | 派克Parker(33/29) | 20/902900                | 派克Parker(33/29)         |
| 37 | 派克Parker Pump   | 20/925357                | 派克Parker                |
| 38 | 派克Parker Pump   | 20/925366                | 派克Parker                |
| 39 | 派克Parker Pump   | 20/925337                | 派克Parker(29/23)JCB 214  |
| 40 | 派克Parker Pump   | 20/925732                | 派克Parker                |
| 41 | 派克Parker Pump   | 20/925588                | 派克Parker                |
| 42 | 派克Parker Pump   | 20/917400                | 派克Parker(gear)          |
| 43 | 派克Parker Pump   | 20/917100                | 派克Parker                |
| 44 | 派克Parker Pump   | 400/E0868                | 派克Parker(33/29)JCB 3CX  |
| 45 | 派克Parker Pump   | 20/908100                | 派克Parker JCB2CX         |
| 46 | 派克Parker Pump   | 20/905100                | 派克Parker                |
| 47 | 派克Parker Pump   | P75 Series               | 派克Parker                |
| 48 | 派克Parker Pump   | P76 Series               | 派克Parker                |
| 49 | 派克Parker Pump   | PGP/PGM 20 Series        | 派克Parker                |
| 50 | 派克Parker Pump   | PGP/PGM 30 Series        | 派克Parker                |
| 51 | 派克Parker Pump   | PGP/PGM 31 Series        | 派克Parker                |
| 52 | 派克Parker Pump   | PGP/PGM 50 Series        | 派克Parker                |
| 53 | 派克Parker Pump   | PGP/PGM 51 Series        | 派克Parker                |
| 54 | 派克Parker Pump   | PGP/PGM 75 Series        | 派克Parker                |
| 55 | 派克Parker Pump   | PGP/PGM 76 Series        | 派克Parker                |
| 56 | 派克Parker Pump   | PGP/PGM315 Series        | 派克Parker                |
| 57 | 派克Parker Pump   | PGP/PGM330 Series        | 派克Parker                |
| 58 | 派克Parker Pump   | PGP/PGM350 Series        | 派克Parker                |
| 59 | 派克Parker Pump   | PGP/PGM365 Series        | 派克Parker                |
| 60 | 派克Parker Pump   | PGP/PGM620 Series        | 派克Parker                |



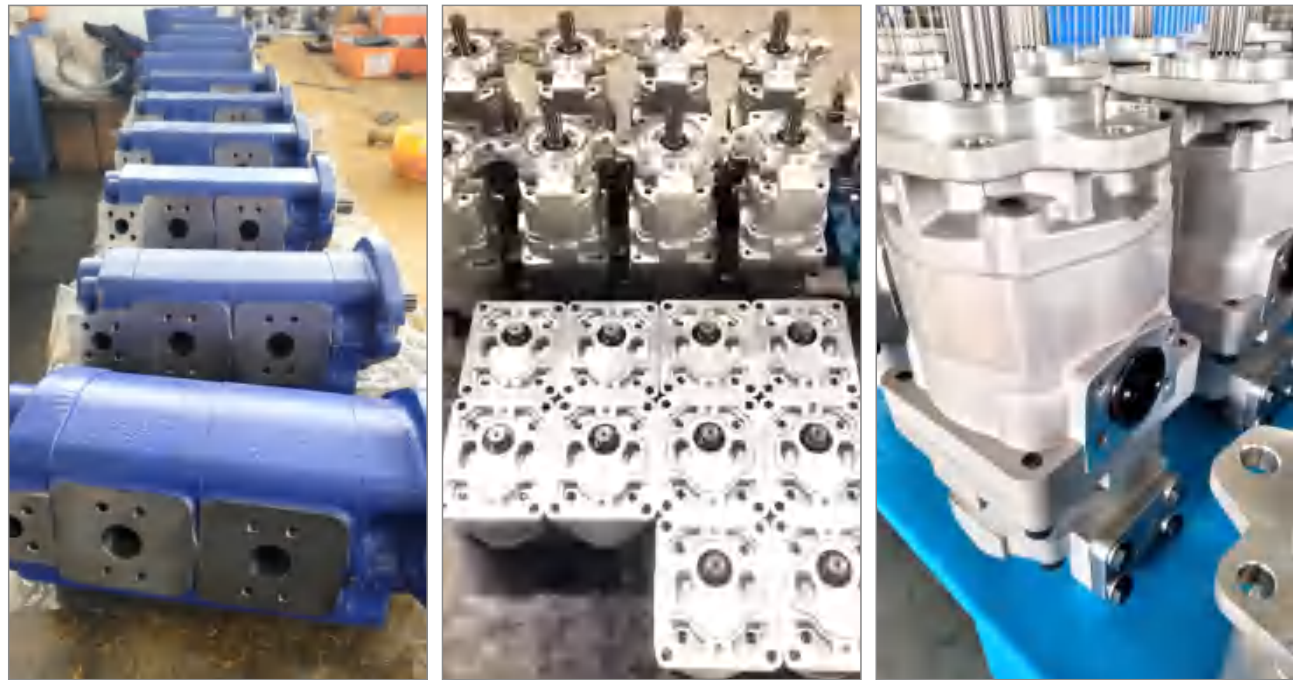
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Precautions For Installation And Use | 安装、使用注意事项

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 工作介质<br>Working Liquid<br>Medium                           | <p>1.推荐夏季选用 # L-HM46或相近粘度的液压油, 冬季选用L-HM32或相近粘度的液压油。<br/>Hydraulic oil with # L-HM46 or similar viscosity are suggested in summer, and hydraulic oil with # L-HM32 or similar viscosity are suggested in winter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            | <p>2.工作油温范围 -20℃~80℃, 泵在连续工作情况下最高温度不得超过80℃, 瞬间工作温度不得超过120℃, 以免引起密封过早老化。<br/>Working oil temperature range -20℃~80℃,the maximum temperature of the pump should not exceed 80℃ under continuous working conditions, and the instantaneous working temperature should not exceed 120℃, so as to avoid the seals premature burning in.</p>                                                                                                                                                                                                                                                                                                                                 |
|                                                            | <p>3.油路系统清洁度直接影响液压元件的可靠性。加油前, 油箱、管路应充分清洗, 一般泵吸入侧常用过滤精度100目的滤油器(保证滤油器有效通流量应大于泵最大吸油流量的两倍),回油管路接过滤精度不低于25um的滤油器,并保持畅通, 防止堵塞。<br/>The cleanliness of the oil system directly affects the reliability of the hydraulic component. The oil tank and pipeline should be thoroughly cleaned before adding the oil. Generally, the filtering accuracy of 100 mesh oil filter should be used at pump's inlet port ( ensure that the effective flow rate of the oil filter should be greater than twice the maximum oil suction flow of the pump),the filtering accuracy of the oil filter should not less than 25um in returned oil pipe,keep it fluent to prevent blockage.</p> |
| 安装使用<br>注意事项<br>Precautions For<br>Installation<br>And Use | <p>1.油泵启动前应仔细检查进出口、旋转方向是否与标牌指示方向一致, 切勿逆向旋转。<br/>Before starting, carefully check whether the inlet port,outlet port and the rotation direction are consistent with the direction indication on the nameplate,do not rotate in reverse.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                            | <p>2.泵的主动轴与原动机输出轴的安装同轴度不得大于0.05mm, 泵支座的安装平面与止口的垂直度不得大于0.05mm。联轴器两端连接部分也应保证0.05mm以内的同轴度。<br/>The coaxiality between pump driven gear shaft and machine output shaft should be within 0.05mm,the verticality of installation plane and locating stop is no more than 0.05 mm, coaxiality of two ends of the shaft sleeve also should be within 0.05mm.</p>                                                                                                                                                                                                                                                                                                               |
|                                                            | <p>3.应保证泵轴不承受径向力、轴向力和弯矩。安装齿轮泵时, 轴应缓慢导入, 切勿强行敲打, 轴向碰撞, 否则将对泵造成严重损坏。<br/>It should be ensured that the pump shaft should not withstand radial force, axial force and bending force. When installing the gear pump, the shaft should be inserted slowly,do not knock forcibly or be axial collision, otherwise it will cause severe damage to the pump.</p>                                                                                                                                                                                                                                                                                                               |
|                                                            | <p>4.泵的吸油高度不大于0.5m, 且进油管道通径应保证流速<math>\leq 1.5\text{m/s}</math>, 即进油管道通径<math>d \geq 3.25\sqrt{Q}</math> (毫米), 其中Q为泵进口流量Q (升) =<math>q \cdot n</math>。<br/>The height of oil absorbed is no more than 0.5m,and the drift diameter of input oil pipe should guarantee <math>\leq 1.5\text{m/s}</math> flow rate,that is to say the drift diameter is <math>d \geq 3.25\sqrt{Q}(\text{mm})</math>,Q means input flow rate is <math>Q(\text{L})= q \cdot n</math>.</p>                                                                                                                                                                                                    |
|                                                            | <p>5.进油口连接法兰处严禁磕碰。结合面、接头必须严格密封, 以防漏气, 否则会引起噪声、振动、产生泡沫沫等异常现象, 降低齿轮泵寿命。<br/>The oil inlet is strictly forbidden to bump.The surface of fitting and the joints must be tightly sealed to prevent air leakage, otherwise Otherwise, it will cause abnormal phenomena such as noise, vibration, and foaming, and reduce the life of the gear pump.</p>                                                                                                                                                                                                                                                                                                                      |
|                                                            | <p>6.低速运转三分钟, 一切正常后再投入使用。<br/>Low speed working of engine for three minutes and then start to use as normal.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |





故障与排除 | Failure And Solution

| 故障现象<br>Failure                                           | 故障原因 Cause Of Failure                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                            | 排除方法<br>Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | 使用中的泵 Pump In Using                                                                                                                                                                                                                                                                                         | 新安装的泵 New Pump Installation                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 泵吸不进油<br>Pump can not suck oil in                         | 1.密封老化变形<br>Seal aging deformation .<br>2.吸油滤油器被脏物堵塞<br>Absorbing oil filter is blocked by dirt .<br>3.油箱油位太低<br>oil level in the tank is too low.<br>4.油位太低，油粘度过高<br>The oil level is too low, and the oil viscosity is too high.<br>5.泵的油封损坏，吸入空气<br>Oil seal in the pump is damaged and the air inhaled. | 1.吸油侧漏气<br>Air leakage at the side of oil -absorbing.<br>2.泵安装位置过高;吸程超过规定<br>Pump installation position is too high; the suction exceeds the regulations.<br>3.油温太低，油粘度过高<br>The oil temperature is too low, and the oil viscosity is too high.<br>4.吸油管太细或过长，阻力太大<br>The suction oil tube is thinner or longer make it bigger resistance.<br>5.泵的转向不对或转速过低<br>Pump's rotation direction is wrong or the speed is too low. | 1.检查密封，重换失效密封件<br>Check seal, replace the failure sealing parts.<br>2.检查吸油部位<br>Check the position of oil sunction .<br>3.更换滤油器，更换或过滤油液<br>Replace the oil filter, replace or filter the oil .<br>4.使泵的吸程在500mm以内<br>Make the suction of the pump within 500mm.<br>5.按季节换合适油液或加热油液<br>Change appropriate oil or heating oil by season.<br>6.更换新的标准油封<br>Replace the new standard oil seal .<br>7.换大通径油管，缩短吸油管长度<br>Change the large -diameter oil pipe and shorten the length of the oil absorption pipe .<br>8.改变泵的转向，增加转速到规定值<br>Change the pump's rotation direction, increase the speed to the specified request. |
| 泵的排油侧不出油<br>The side of oil discharge does not output oil | 溢流阀损坏，或被脏物卡死，油液从溢流阀流回油箱<br>The overflow valve is damaged, or it is stuck by dirt, and the oil flows from the overflow valve back to the tank .                                                                                                                                                              | 溢流阀是次品，或阀芯被卡死<br>The overflow valve is a defective product, or the valve core is stuck .                                                                                                                                                                                                                                                                                                                                   | 检查并修理或更换溢流阀;清除油中脏物或更换油液<br>Check and repair or replace the flow valve; remove the dirt in the oil or replace the oil .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| 故障现象<br>Failure                                                            | 故障原因 Cause Of Failure                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                       | 排除方法<br>Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | 使用中的泵 Pump In Using                                                                                                                                                                                                                                                                                                                       | 新安装的泵 New Pump Installation                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 泵排油但压力上不去<br>Oil discharge but can't achieve the pressure                  | 1.泵内滑动件严重磨损容积效率太低<br>The heavily abrasion in the pump leads the accumulation efficiency too low .<br>2.溢流阀的锥芯严重磨损<br>The cone core of the overflow valve is severely worn .<br>3.溢流阀被脏物卡住动作不良<br>The discharge valve is stuck by the dirty and the action is poor.<br>4.泵的轴向或径向间隙过大<br>The axial or radial gap of the pump is too large . | 1.吸油侧少量吸空气<br>Little air suck in at the the side of inlet .<br>2.高压侧有漏油通道<br>There is an oil leakage channel at high presssure side .<br>3.溢流阀调压过低或关闭不严<br>Pressure adjustment of the overflow valve is too low or not strictly closed .<br>4.吸油阻力过大或进入空气<br>Excessive oil absorption resistance or entering the air .<br>5.泵转速过高或过低<br>Pump's rotation speed is too high or too low. | 1.检修泵或更换新泵<br>Maintenance pump or replace a new pump.<br>2.密封不良，改善密封<br>Poor sealing, improve sealing .<br>3.修磨或更换锥阀芯<br>Exturing or replacing the cone valve core .<br>4.过滤油液，清除污物<br>Filter oil, remove dirt .<br>5.找出漏油部位，及时处理修理或更换泵<br>Find the oil leakage position,repair or replace the pump in time.<br>6.调节或修理溢流阀<br>Adjust or repair the overflow valve<br>7.检查阻力过大原因，及时消除<br>Check the resistance reason and eliminate timely.<br>使泵的转速在规定的范围内<br>Make the speed of the pump within the specified range . |
| 泵排油压力虽能上升但效率过低<br>The pressure of pump can rise, the efficiency is too low | 1.泵内密封件损伤<br>Seal damage inside the pump.<br>2.泵内滑动件严重磨损<br>Driving parts inside the pump are severely worn out.<br>3.溢流阀或换向阀磨损或活动件间隙过大<br>Overflow valve or steering valve wear or movement of activity is too large.<br>4.泵内有脏物或间隙过大<br>Dirty inside the pump or excessive gap in the pump.                                             | 1.吸进杂物<br>Suck in the impurities .<br>2.泵转速过低或高<br>Pump's speed is too low or high .<br>3.油箱内出现负压<br>Negative pressure appears in the tank .                                                                                                                                                                                                                                          | 1.检修泵，更换密封件<br>Repair the pump, replace the seal kit .<br>2.检修泵，更换新泵<br>Maintenance the pump, replace the new pump.<br>3.检修溢流阀或更换新阀<br>Maintenance or repplace a overflow valve or replace the new valve.<br>4.清除脏物，过滤油<br>Clean the dirt, and filter the oil .<br>5.更换新泵使泵在规定转速范围内运转<br>5.Replace the new pump pump to run within the specified speed range.<br>6.增大空气过滤器的容量<br>Increase the capacity of the air filter .                                                                                           |