

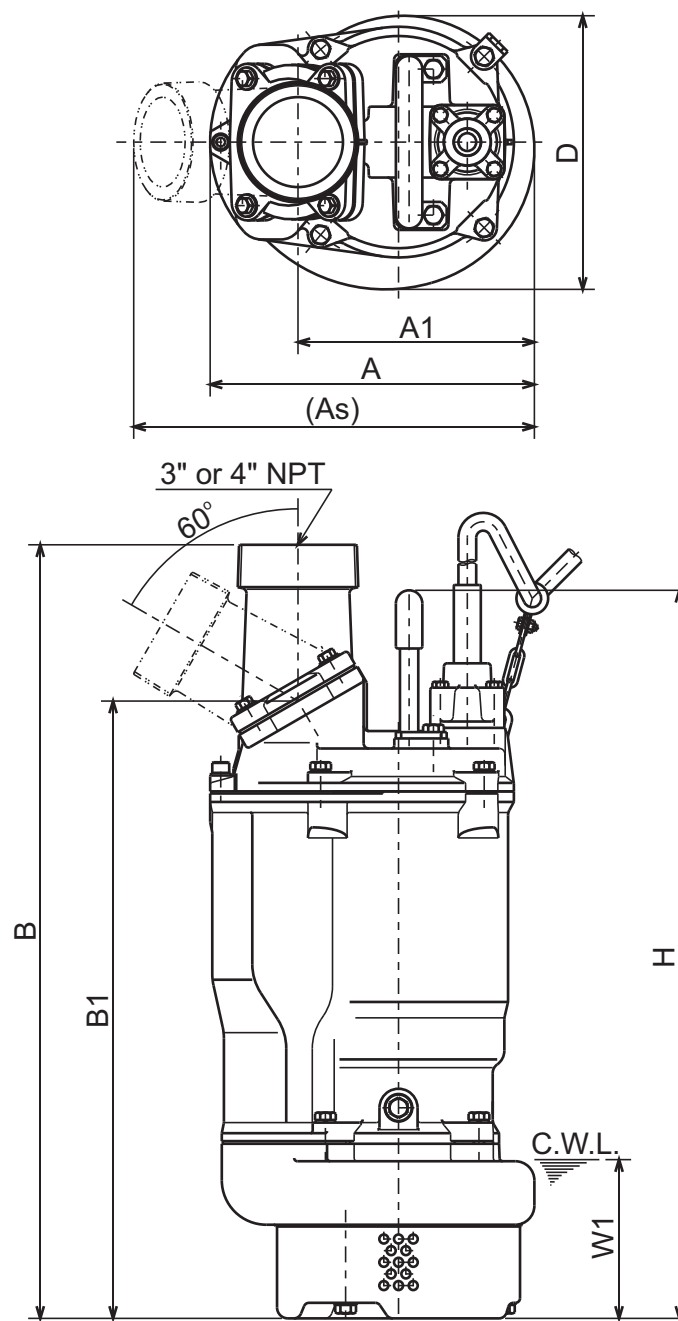


**TSURUMI PUMP**

## KTZ - SERIES DEWATERING PUMPS

## DIMENSIONS

**KTZ35.5-63**  
**KTZ45.5-63**



C.W.L. : Continuous running Water Level

### DIMENSIONS:USCS (Inch)

| Model      | HP  | NOM.<br>SIZE | Pump & Motor |         |         |        |          |         |         |       | C.W.L. | Wt. |
|------------|-----|--------------|--------------|---------|---------|--------|----------|---------|---------|-------|--------|-----|
|            |     |              | A            | As      | A1      | B      | B1       | D       | H       | W1    | (lbs.) |     |
| KTZ35.5-63 | 7.5 | 3"           | 12 1/16      | 14 5/16 | 8 13/16 | 28 3/8 | 22 15/16 | 10 3/16 | 27 1/16 | 5 7/8 | 167    |     |
| KTZ45.5-63 | 7.5 | 4"           | 12 1/16      | 14 7/8  | 8 13/16 | 28 3/4 | 22 15/16 | 10 3/16 | 27 1/16 | 5 7/8 | 170    |     |

### DIMENSIONS:METRIC (mm)

| Model      | kW  | NOM.<br>SIZE | Pump & Motor |     |     |     |     |     |     | C.W.L. | Wt.<br>(kg) |
|------------|-----|--------------|--------------|-----|-----|-----|-----|-----|-----|--------|-------------|
|            |     |              | A            | As  | A1  | B   | B1  | D   | H   | W1     |             |
| KTZ35.5-63 | 5.5 | 80           | 306          | 363 | 223 | 721 | 583 | 259 | 688 | 150    | 76          |
| KTZ45.5-63 | 5.5 | 100          | 306          | 379 | 223 | 731 | 583 | 259 | 688 | 150    | 77          |

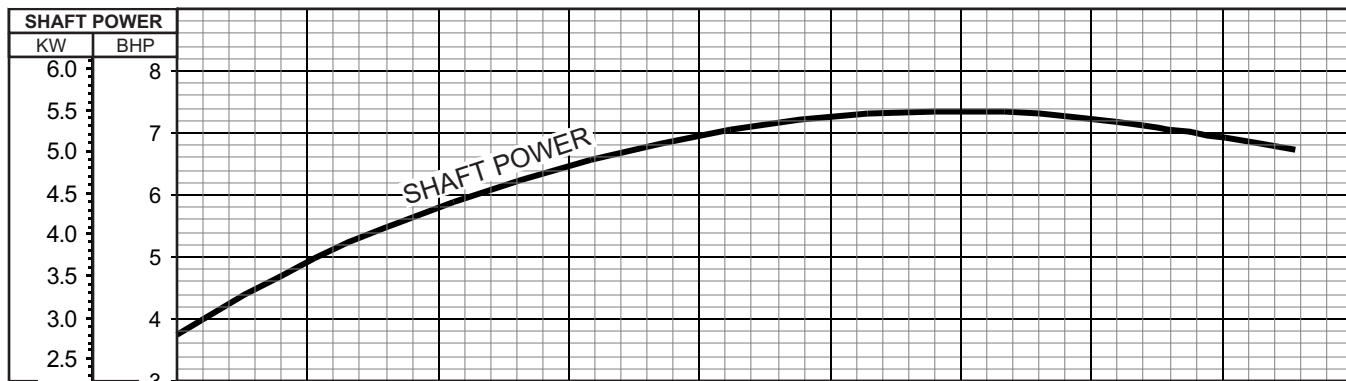
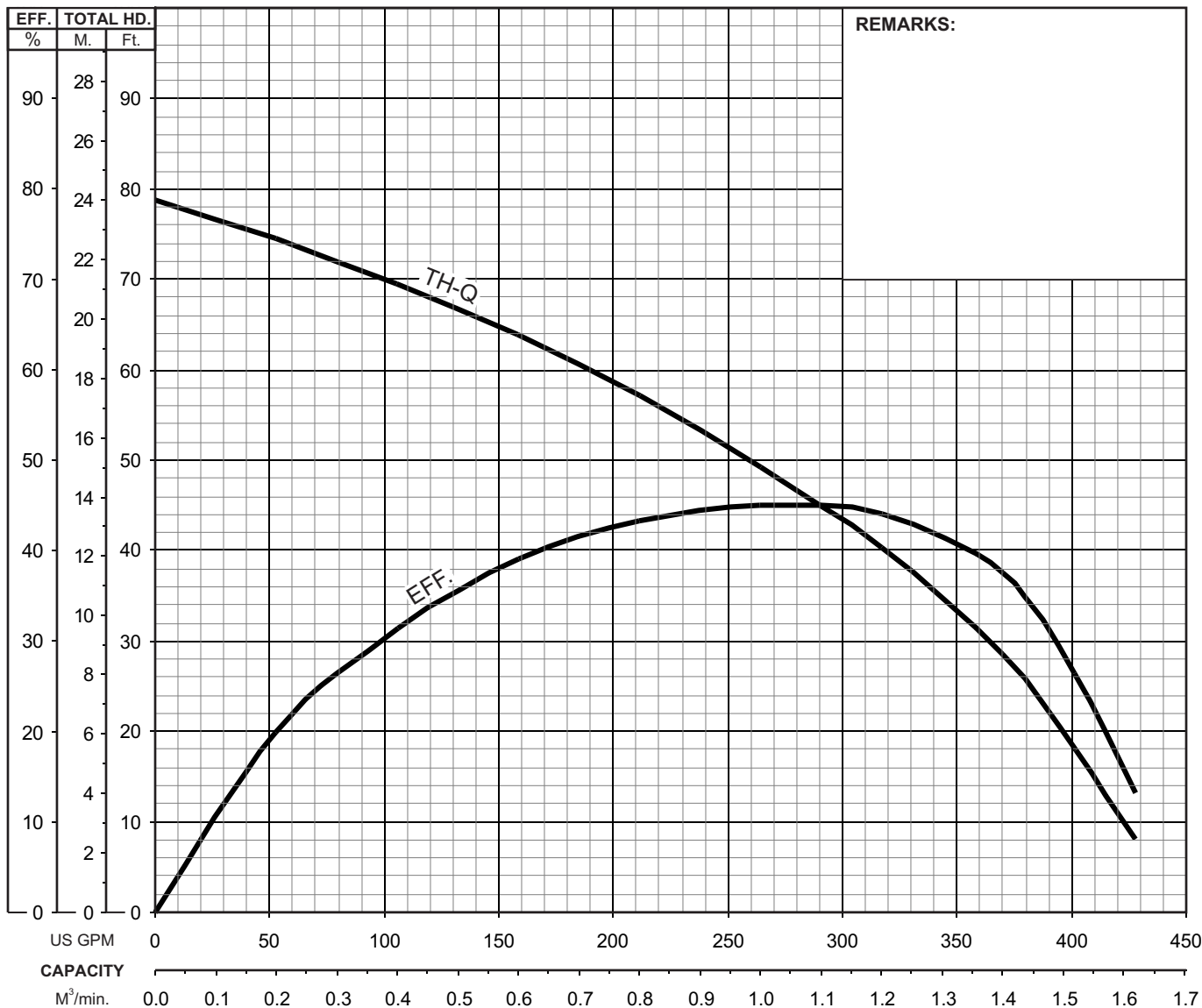


**TSURUMI PUMP**

## KTZ - SERIES DEWATERING PUMPS

## PERFORMANCE CURVE

| MODEL           | BORE     | HP              | KW                     | RPM      | SOLIDS DIA      | LIQUID          | SG.        | VISCOSITY  | TEMP. |
|-----------------|----------|-----------------|------------------------|----------|-----------------|-----------------|------------|------------|-------|
| KTZ45.5-63      | 4"/100mm | 7.5             | 5.5                    | 3545     | 0.334"/8.5mm    | Water           | 1.0        | 1.123 cSt. | 60°F  |
| PUMP TYPE       | PHASE    | VOLTAGE         | AMPERAGE               | HZ       | STARTING METHOD | INS. CLASS      |            |            |       |
| Dewatering Pump | 3        | 208-230/460/575 | 21.0-19.7 / 10.0 / 7.9 | 60       | Direct On Line  | F               |            |            |       |
| CURVE No.       | DATE     | PHASE           | VOLTAGE                | AMPERAGE | HZ              | STARTING METHOD | INS. CLASS |            |       |
| -               | -        | -               | -                      | -        | -               | -               | -          |            |       |



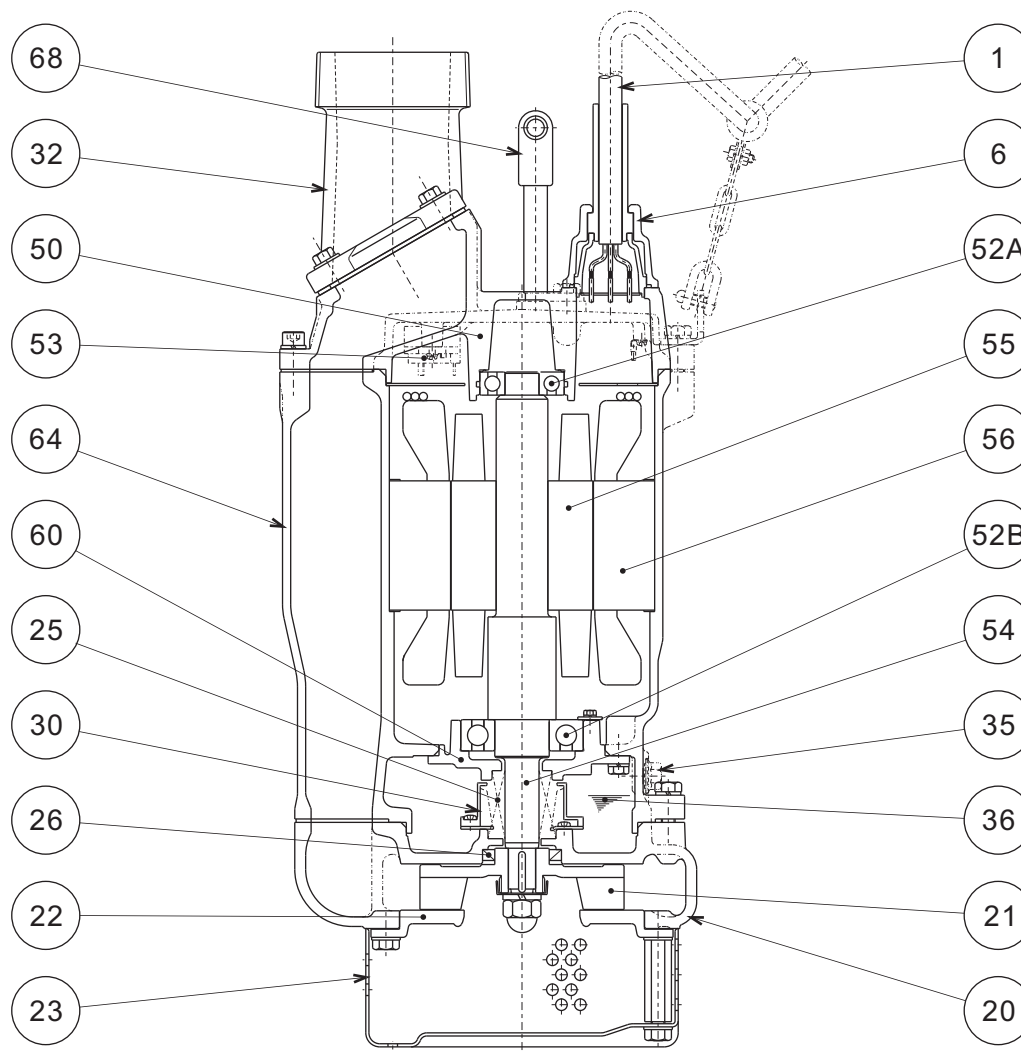


**TSURUMI PUMP**

**KTZ - SERIES**  
**DEWATERING PUMPS**

**SECTIONAL VIEW**

**KTZ35.5-63**  
**KTZ45.5-63**



| ITEM# | DESCRIPTION          | MAIN MATERIAL / NOTE                | RELATED ASTM, AISI CODE | RELATED EN CODE     | Q'TY |
|-------|----------------------|-------------------------------------|-------------------------|---------------------|------|
| 1     | Power Cable          | Chloroprene Sheath AWG12/4-50ft     |                         |                     | 1    |
| 6     | Stuffing Box         | Cast Iron                           | A48M Class30B           | EN 1561 GJL-200     | 1    |
| 20    | Pump Casing          | Cast Iron                           | A48M Class30B           | EN 1561 GJL-200     | 1    |
| 21    | Impeller             | High Chrome Cast Iron               | A532 Class III Type A   | DIN 1695 G-X260Cr27 | 1    |
| 22    | Suction Cover        | Ductile Cast Iron                   | A536 80-55-06           | EN 1563 GJS-500-7   | 1    |
| 23    | Suction Strainer     | Steel (Cold Rolled)                 | A109/A1008              | EN 10130            | 1    |
| 25    | Mechanical Seal      | Silicon Carbide / H-25T             |                         |                     | 1    |
| 26    | Oil Seal             | Nitrile Butadiene Rubber / TC-40588 |                         |                     | 1    |
| 30    | Oil Lifter           | PBT Resin                           |                         |                     | 1    |
| 32    | Discharge Connection | Cast Iron / NPT 3" or 4"            | A48M Class30B           | EN 1561 GJL-200     | 1    |
| 35    | Oil Plug             | Stainless Steel                     | S 30400                 | 1.4301              | 1    |
| 36    | Lubricant            | Turbine Oil ISO VG32 or SAE10W-20   |                         |                     |      |
| 50    | Motor Head Cover     | Cast Iron                           | A48M Class30B           | EN 1561 GJL-200     | 1    |
| 52A   | Upper Bearing        | #6305ZCC3                           |                         |                     | 1    |
| 52B   | Lower Bearing        | #6308ZCC3                           |                         |                     | 1    |
| 53    | Motor Protector      |                                     |                         |                     | 1    |
| 54    | Shaft                | Stainless Steel                     | S 42000                 | 1.4028              | 1    |
| 55    | Rotor                |                                     |                         |                     | 1    |
| 56    | Stator               |                                     |                         |                     | 1    |
| 60    | Bearing Housing      | Cast Iron                           | A48M Class25B           | EN 1561 GJL-150     | 1    |
| 64    | Motor Housing        | Cast Iron                           | A48M Class25B           | EN 1561 GJL-150     | 1    |
| 68    | Handle               | Carbon Steel Pipe + NBR Rubber      | A53 Type F              | DIN 1615 St33       | 1    |


MODEL **KTZ45.5-63**

| PARTS LIST |            | HI VOLUME DEWATERING PUMP                |      |                         |          | 6/7/2018 |
|------------|------------|------------------------------------------|------|-------------------------|----------|----------|
| ITEM       | PART No.   | DESCRIPTION                              | QTY  | SIZE                    | MATERIAL | NOTES    |
| 1          | 140-074-15 | Hex.Bolt                                 | 2    | M10x20                  | SUS304   |          |
| 2          | 068-000-36 | Handle                                   | 1    | KTZ23.7/45.5            | SGP+SS   |          |
| 3          | 010-121-19 | Cable Clip Rubber                        | 1    | No.1                    | NBR      |          |
| 4          | 010-120-18 | Cable Clip                               | 1    | No.2-1                  | SPC      |          |
| 5          | 140-032-37 | Hex.Bolt                                 | 1    | M6x15                   | SWRM     |          |
| 6          | 141-004-59 | Hex.Nut                                  | 1    | M6                      | SWRM     |          |
| 7          | 095-131-18 | Chain                                    | 1    | 4mm(3L)                 | SS       |          |
| 8          | 011-110-11 | Shackle                                  | 1    | 6mm(M8,SC)              | SS       |          |
| 9          | 001-841-33 | Cabtyre Cable Set (50') 60Hz(USA)        | 1    | 2PNCTF4Cx3.5mm2         | KTZ      |          |
| 10         | 140-060-18 | Hex.Bolt                                 | 4    | M8x50                   | SUS304   |          |
| 11         | 006-167-17 | Stuffing Box                             | 1    | No.1-3                  | FC       |          |
| 12         | 122-121-12 | O-Ring                                   | 1    | G-50(49.4xd3.1)         | NBR      | *        |
| 13         | 004-168-12 | Cable Bush 60Hz(USA)                     | 1    | No.2                    | CR       |          |
| 14         | 008-156-19 | Mould Cover                              | 1    | No.1-3                  | ADC      |          |
| 15         | 009-123-10 | Terminal                                 | 4    | P-5.5                   | CU       |          |
| 16         | 009-101-12 | Terminal(C/W Screw)                      | 4    | d12x(d6.6xd6.6)x25l     | C3604    |          |
| 17         | 009-123-10 | Terminal                                 | 4    | P-5.5                   | CU       |          |
| 18         | 002-135-14 | Heat Shrink Tube (Sold per meter)        | m    | A(d15x0.3t)             | (V/m)    |          |
| 19         | 002-132-11 | Heat Shrink Tube (Sold per meter)        | m    | A4(d17x0.27t)           | (V/m)    |          |
| 20         | 140-000-87 | Hex.Bolt                                 | 4    | M10x35(B=14)            | SUS304   |          |
| 21         | 142-128-24 | Plain Washer                             | 4    | M10                     | SPC      |          |
| 22         | 032-000-94 | Hose Coupling (for USA)                  | 1    | KTZ43.7-63(NPT-4,Angle) | FC       |          |
| 23         | 121-001-48 | Packing                                  | 1    | KTZ-3.7/7.5(Angle)      | NBR      | *        |
| 24         | 140-079-10 | Hex.Bolt                                 | 4    | M10x40                  | SUS304   |          |
| 25         | 142-164-19 | Spring Washer                            | 4    | M10                     | SUS304   |          |
| 26         | 070-117-11 | L-Shape Fitting                          | 1    | 40x25x4.5t d13Hole      | SPC      |          |
| 27         | 140-288-14 | Hex.Socket Cap Bolt                      | 1    | M10x35                  | SUS304   |          |
| 28         | 142-164-19 | Spring Washer                            | 1    | M10                     | SUS304   |          |
| 29         | 050-001-10 | Motor Bracket                            | 1    |                         | FC       |          |
| 30         | 122-000-09 | O-Ring                                   | 1    | 195xd3.8                | NBR      | *        |
| 31         | 053-198-13 | Motor Protector 208/230V-60Hz(USA)       | 1    | KA314-HLZL00            | (B.C)    |          |
|            | 053-506-18 | Motor Protector 460V-60Hz(USA)           | 1    | KA314-HMXL00            | (B.C)    |          |
|            | 053-404-15 | Motor Protector 575V-60Hz(USA)           | 1    | KA314-HRVL201           | (B.C)    |          |
| 32         | 143-126-12 | Pan Screw (w/Spring Washer/Plain Washer) | 2    | M4x12                   | SWRM     |          |
| 33         | 009-294-13 | Earth Terminal                           | 1Set | 3.5mm2x170L             |          |          |
| 34         | 143-085-34 | Pan Screw (w/Spring Washer)              | 1    | M4x6                    | C3604    |          |
| 35         | 142-197-11 | Wave Washer                              | 1    | 6305                    | SK5      |          |
| 36         | 052-108-13 | Bearing                                  | 1    | 6305ZZC3                |          |          |

| PARTS LIST |            | HI VOLUME DEWATERING PUMP     |      |                     |          | 6/7/2018              |
|------------|------------|-------------------------------|------|---------------------|----------|-----------------------|
| ITEM       | PART No.   | DESCRIPTION                   | QTY  | SIZE                | MATERIAL | NOTES                 |
| 37         | 122-244-12 | O-Ring                        | 1    | 61.4xd3.1           | NBR      | *                     |
| 38         | 058-000-35 | Lead Wire Protection Plate    | 1    | d84xd199.5x1.6t     | PE       |                       |
| 39         | 055-002-59 | Rotor                         | 1Set |                     |          |                       |
| 40         | 147-026-13 | Impeller Key                  | 1    | 5x5x25L             | SUS420   |                       |
| 41         | 056-007-24 | Stator 208/230V-60Hz(USA)     | 1Set |                     |          |                       |
|            | 056-007-29 | Stator 460V-60Hz(USA)         | 1Set |                     |          |                       |
|            | 056-007-31 | Stator 575V-60Hz(USA)         | 1Set |                     |          |                       |
| 42         | 121-000-14 | Packing (Water Way, Upp.)     | 1    | KTZ35.5/67.5-51/61  | NBR      | *                     |
| 43         | 064-000-02 | Motor Frame                   | 1    |                     | FC       |                       |
| 44         | 140-078-19 | Hex.Bolt                      | 4    | M10x35              | SUS304   |                       |
| 45         | 142-164-19 | Spring Washer                 | 4    | M10                 | SUS304   |                       |
| 46         | 121-247-12 | Packing                       | 1    | d12.3xd18x2t        | PE       | *                     |
| 47         | 140-000-17 | Hex.Bolt (w/Flange)           | 1    | M12x15(Oil Plug)    | SUS304   |                       |
| 48         | 140-000-23 | Hex.Bolt (w/Spring Washer)    | 4    | M5x10               | SWRM     |                       |
| 49         | 062-000-02 | Bearing Cover                 | 4    | d5.5xd18x2t         | SPC      |                       |
| 50         | 052-111-19 | Bearing                       | 1    | 6308ZC3             |          |                       |
| 51         | 122-135-19 | O-Ring                        | 1    | G-120(119.4xd3.1)   | NBR      | *                     |
| 52         | 060-001-38 | Bearing Housing               | 1    |                     | FC       |                       |
| 53         | 142-163-34 | Spring Washer                 | 4    | M8                  | SWRH     |                       |
| 54         | 140-054-48 | Hex.Bolt                      | 4    | M8x20               | SWRM     |                       |
| 55         | 025-001-00 | Mechanical Seal               | 1    | H-25T (RoHS)        | SiC      | supercedes 025-000-07 |
| 56         | 143-070-23 | Pan Screw                     | 2    | M5x6                | SWRM     |                       |
| 57         | 030-143-12 | Oil Lifter                    | 1    | H-25(A)(T)          | Resin    |                       |
| 58         | 143-070-10 | Pan Screw                     | 4    | M5x6                | SWRM     |                       |
| 59         | 030-148-17 | Seal Stopper                  | 1    | HT-2530             | SPCC     |                       |
| 60         | 122-283-13 | O-Ring                        | 1    | 165xd3.1            | NBR      | *                     |
| 61         | 121-124-12 | Packing (Water Way, Low.)     | 1    | KTV-37/55           | NBR      | *                     |
| 62         | 020-001-04 | Pump Casing                   | 1    | KTZ35.5/45.5        | FC       |                       |
| 63         | 026-144-49 | Oil Seal                      | 1    | TC-40588            | NBR      |                       |
| 64         | 040-106-27 | Impeller Shim                 |      | d20.2xd30x0.3t      | SUS304   |                       |
| 65         | 021-008-82 | Impeller (60Hz)               | 1    | KTZ45.5-63          | HiCrFC   |                       |
| 66         | 047-104-26 | Impeller Thread Protect.Cover | 1    | No.3B(18)           | SUS304   |                       |
| 67         | 142-166-11 | Spring Washer                 | 1    | M16                 | SUS304   |                       |
| 68         | 141-033-15 | Hex.Cap Nut                   | 1    | M16                 | SUS304   |                       |
| 69         | 120-109-21 | Packing (S.Cover)             |      | d180xd222x0.5t(d12) | PE       |                       |
| 70         | 022-000-56 | Suction Cover                 | 1    | KTZ43.7/45.5        | FCD      |                       |
| 71         | 142-128-24 | Plain Washer                  | 3    | M10                 | SPC      |                       |
| 72         | 140-074-15 | Hex.Bolt                      | 3    | M10x20              | SUS304   |                       |

| PARTS LIST |            | HI VOLUME DEWATERING PUMP    |      |                          |          | 6/7/2018 |
|------------|------------|------------------------------|------|--------------------------|----------|----------|
| ITEM       | PART No.   | DESCRIPTION                  | QTY  | SIZE                     | MATERIAL | NOTES    |
| 73         | 142-128-24 | Plain Washer                 | 3    | M10                      | SPC      |          |
| 74         | 144-000-31 | Stud Bolt                    | 3    | M10x94(20/14)            | SUS410   |          |
| 75         | 023-471-10 | Strainer Stand               | 1    | KTZ23.7/45.5             | SPCC     |          |
| 76         | 142-128-24 | Plain Washer                 | 3    | M10                      | SPC      |          |
| 77         | 141-006-77 | Hex.Nut                      | 3    | M10                      | S45C     |          |
|            | 173-003-41 | <b>Packing O-Ring Set</b>    | 1Set | (Marked by *)            |          |          |
| 12         | 122-121-12 | O-Ring (S.Box)               | 1    | G-50(49.4xd3.1)          | NBR      | *        |
| 23         | 121-001-48 | Packing (Hose Coupling)      | 1    | KTZ-3.7/7.5(Angle)       | NBR      | *        |
| 30         | 122-000-09 | O-Ring (M.Bracket/M.Frame)   | 1    | 195xd3.8                 | NBR      | *        |
| 37         | 122-244-12 | O-Ring (Upp. Bearing)        | 1    | 61.4xd3.1                | NBR      | *        |
| 42         | 121-000-14 | Packing (Water Way, Upp.)    | 1    | KTZ35.5/67.5-51/61       | NBR      | *        |
| 46         | 121-247-12 | Packing (Oil Plug)           | 1    | d12.3xd18x2t             | PE       | *        |
| 51         | 122-135-19 | O-Ring (M.Frame/Brq.Housing) | 1    | G-120(119.4xd3.1)        | NBR      | *        |
| 60         | 122-283-13 | O-Ring (M.Frame/P.Casing)    | 1    | 165xd3.1                 | NBR      | *        |
| 61         | 121-124-12 | Packing (Water Way, Low.)    | 1    | KTV-37/55                | NBR      | *        |
|            |            | Lubricant                    |      | Turbine Oil VG32 1,100ml |          |          |
|            | 183-008-11 | <b>Impeller Puller</b>       |      | A No.3 1"                | FC       |          |

| PARTS LIST |          | HI VOLUME DEWATERING PUMP |     |      |          | 6/7/2018 |
|------------|----------|---------------------------|-----|------|----------|----------|
| ITEM       | PART No. | DESCRIPTION               | QTY | SIZE | MATERIAL | NOTES    |

## EXPLODED VIEW

KTZ45. 5-53/63

