

# HS

Submersible Portable Dewatering Pump



## Long-term best seller spiral casing pump equipped with high performance motor

### Common Features

- Cable entry with anti-wicking block
- High-grade bearings for high-temperature operation
- Integrated high-performance motor
- Built-in motor protector
- Oil-bath type double-mechanical seal featuring enhanced stable shaft sealing effect over prolonged use
- Service life of mechanical seal extended by OIL LIFTER (patent pending)
- Impeller lock minimized by semi-vortex design

### Individual Features

#### Light, Strong Materials

Light but strong materials such as aluminium die castings and water-resistant special synthetic rubber are used on the entire pump.



#### Cooling System/Discharge Port

<Spiral design>

The spiral structure of this pump allows sand and silt-laden water to pass through efficiently.



#### Agitator

An agitator impeller is provided on the extension of the pump shaft. This not only prevents "air locking" which is caused by air building up inside the casing, but also reduces clogging when solid objects are sucked in.



Agitator

### Major Standard Specifications

| Item         | Discharge bore size mm                                      |        |
|--------------|---|--------|
|              | 50  | 80(50) |
| Pumping Unit | Type of fluid Rain water, Ground water, Sand carrying water |        |
|              | Liquid temperature 0~40°C                                   |        |
| Pump         | Impeller Semi-vortex  |        |
|              | Shaft seal Double mechanical seal                           |        |
|              | Bearing Shielded ball bearing                               |        |
|              | Impeller Urethane rubber                                    |        |
| Materials    | Casing Ductile iron casting                                 |        |
|              | Shaft seal mechanical seal Silicon Carbide                  |        |
|              | Shaft seal mechanical seal Silicon Carbide                  |        |
| Motor        | Type, poles Dry-type submersible induction motor, 2 poles   |        |
|              | Insulation Class E  |        |
|              | Phase/Voltage Single-phase/110V, 200V, 220V, 230V, 240V     |        |
|              | Motor protector (Built-in) Miniature protector              |        |
|              | Lubricant Turbine oil (ISO VG32)                            |        |
|              | Frame Aluminium alloy casting                               |        |
|              | Shaft Stainless steel #403                                  |        |
| Materials    | Frame Aluminium alloy casting                               |        |
|              | Shaft Stainless steel #403                                  |        |
|              | Cable PVC Sheath  |        |
|              | Discharge connection Hose coupling                          |        |

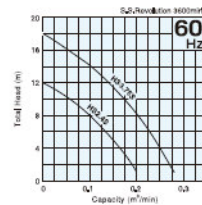
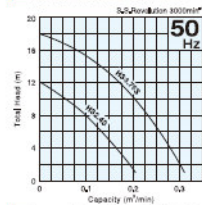
### Standard Accessories

- Cabletye cable .....1pc
- Hose coupling .....1pc
- Hose band .....1pc

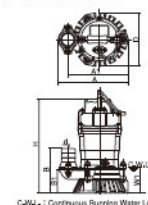
### Optional Specifications

- Extended cable
- Special paint

### Performance Curves



### Dimensions



C/WL: Continuous Running Water Level

### Specifications 50/60Hz

| Discharge bore mm | Model  | Motor Output kW | Phase  | Max. Head m | Max. Capacity m <sup>3</sup> /min. | Starting Method | Dry Weight kg | Length of Cabletye Cable m | Dimensions mm |     |     |     |     |     |     | C/WL mm |    |
|-------------------|--------|-----------------|--------|-------------|------------------------------------|-----------------|---------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|---------|----|
|                   |        |                 |        |             |                                    |                 |               |                            | d             | A   | A1  | B   | B1  | D   | H   |         | W1 |
| 50                | HS2.4S | 0.4             | Single | 12          | 0.2                                | Capacitor Run   | 11.3          | 5                          | 50            | 241 | 207 | 158 | 84  | 185 | 328 | 90      |    |
| 80(50)            | HS3.7S | 0.75            | Single | 18          | 0.3/0.28                           | Capacitor Run   | 17.5          | 5                          | 80            | 285 | 135 | 217 | 109 | 172 | 388 | 114     |    |

● 30mm discharge available on request. ● Dry weight of the pump excluding cable.

# NK

Submersible Portable Dewatering Pump



## Maximum output pump among single-phase pumps

### Common Features

- Cable entry with anti-wicking block
- High-grade bearings for high-temperature operation
- Integrated high-performance motor
- Built-in motor protector
- Oil-bath type double-mechanical seal featuring enhanced stable shaft sealing effect over prolonged use
- Service life of mechanical seal extended by OIL LIFTER (patent pending)
- Mechanical seal protected from corrosive particles in priming fluid by V-ring
- Impeller lock minimized by semi-vortex design

### Individual Features

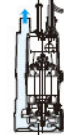
#### Incorporating Starting Capacitor

No special starts are required. Just connect the power supply to enable operation.

#### Cooling System/Discharge Port

<Side flow design>

Efficient motor cooling can be achieved. Water is discharged from the top, which makes the pump easier to install in narrow locations.



### Standard Accessories

- Cabletye cable .....1pc
- Hose coupling .....1pc

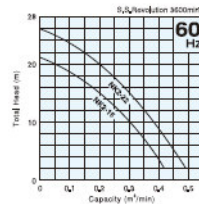
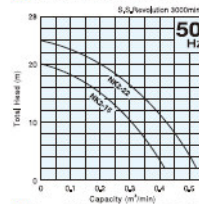
### Optional Specifications

- Extended cable
- Special paint

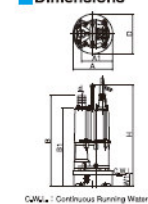
### Major Standard Specifications

| Item         | Discharge bore size mm                                      |  |
|--------------|---|--|
|              | 50  |  |
| Pumping Unit | Type of fluid Rain water, Ground water, Sand carrying water |  |
|              | Liquid temperature 0~40°C                                   |  |
| Pump         | Impeller Semi-vortex  |  |
|              | Shaft seal Double mechanical seal                           |  |
|              | Bearing Shielded ball bearing                               |  |
|              | Impeller Urethane rubber                                    |  |
| Materials    | Casing Ductile iron casting                                 |  |
|              | Shaft seal mechanical seal Ethylene propylene rubber        |  |
|              | Shaft seal mechanical seal Silicon Carbide                  |  |
| Motor        | Type, poles Dry-type submersible induction motor, 2 poles   |  |
|              | Insulation Class B  |  |
|              | Phase/Voltage Single-phase/110V, 220V, 230V, 240V           |  |
|              | Motor protector (Built-in) Circle thermal protector         |  |
|              | Lubricant Turbine oil (ISO VG32)                            |  |
|              | Frame Aluminium alloy casting                               |  |
|              | Shaft Stainless steel #403                                  |  |
| Materials    | Frame Aluminium alloy casting                               |  |
|              | Shaft Stainless steel #403                                  |  |
|              | Cable Chloroprene Sheath                                    |  |
|              | Discharge connection Hose coupling                          |  |

### Performance Curves



### Dimensions



C/WL: Continuous Running Water Level

### Specifications 50/60Hz

| Discharge bore mm | Model  | Motor Output kW | Phase  | Max. Head m | Max. Capacity m <sup>3</sup> /min. | Starting Method | Dry Weight kg | Length of Cabletye Cable m | Dimensions mm |     |     |     |     |     |     | C/WL mm |    |
|-------------------|--------|-----------------|--------|-------------|------------------------------------|-----------------|---------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|---------|----|
|                   |        |                 |        |             |                                    |                 |               |                            | d             | A   | A1  | B   | B1  | D   | H   |         | W1 |
| 50                | NK2-15 | 1.5             | Single | 20          | 0.42                               | Capacitor Start | 31.8          | 8                          | 50            | 240 | 187 | 555 | 473 | 240 | 623 | 80      |    |
| 50                | NK2-22 | 2.2             | Single | 24          | 0.53                               | Capacitor Start | 32.0          | 8                          | 50            | 240 | 187 | 555 | 473 | 240 | 623 | 80      |    |

● Dry weight of the pump excluding cable.