



SINCE 1976

修附電機



ISO 9001  
BSMI

標檢局

ISO-9001/CNS 12681

# SHOWFOU PUMP

SS/SSA Submersible Sewage Pump

-- equipped with ceramic carbon mechanical seal

SST/STA Submersible Sewage Pump

-- equipped with silicon carbide mechanical seal

SSM/SMA Submersible Vortex Pump



SSM  
1/2HP~15HP



SMA  
1/2HP&1HP

SS/SSA

污物幫浦

SST/STA

污物幫浦

(配備矽碳鋼軸封)

SSM/SMA

特殊污物用幫浦

SS  
1/2HP~15HP



SSA 1/2HP&1HP



SST  
1HP~15HP



STA 1HP



# SHOWFOU Submersible Sewage Pumps

Advanced "Shredder Mechanism"

Unique "Epoxy Cable Sealing Base" to ensure 100% capability to block the water vapor into the motor from outside.

Triplex Seal System - Double Mechanical Seal plus Oil Seal

## SS / SSA / SST / STA

### ■ FEATURES:

- \* **Impeller :**  
Hydrodynamically well-balanced dual blade semi-open non-clogging type.
- \* **Mechanical Seal :**  
Oil-bath type, double mechanical seal & oil seal offers which ensure a longer pump life.
- \* **Shredder Mechanism :**  
Surface hardening heat treatment is done on impeller vanes and cutting edges on impeller cover, both of which are the main components of shredder mechanism.
- \* **Compact and Light-Weight :**  
Designed to be light, so easy to carry and handle.
- \* **Quiet :**  
Dynamic balance adjuster enables pump to run balanced with less noise in addition to underwater operation.
- \* **Economical :**  
Long-runable with less maintenance cost.

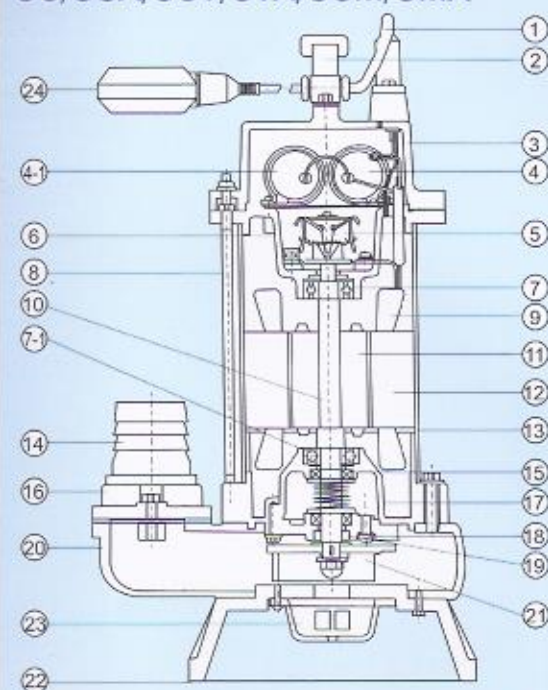
### ■ APPLICATIONS:

Ideal for sewage, industrial & ground water drainage installation in the following fields.

- # Sewage pumping stations.
- # Sewage treatment plants.
- # Septic tanks.
- # Collecting & settling sumps.
- # Flood & emergency.
- # Anywhere drainage of dirty water with rags mixed in.
- \* **Residential Sites**
  - # Residential houses
  - # Small groups of houses
  - # Flats & apartment
- \* **Commercial Sites**
  - # Restaurants & shops
  - # Markets & supermarkets
  - # Hospitals
  - # Laundries
  - # Stations
  - # Theaters
  - # Garages
- \* **Industrial Sites**
  - # Mills & factories, for pumping slurry, sludge, viscous & dirty water arised during processes.
  - # Industrial buildings.
  - # Sewage treatment plants.
  - # Water purification plants.

### ■ CONSTRUCTIONS:

#### SS/SSA/SST/STA/SSM/SMA



| NO. | PARTS LIST            | MATERIAL                                                   |
|-----|-----------------------|------------------------------------------------------------|
| 1   | Cable                 | VCT                                                        |
| 2   | Handle                | Stainless Steel                                            |
| 3   | Motor Head Cover      | Cast Iron                                                  |
| 4   | Running Capacitor     | μF                                                         |
| 4-1 | Starting Capacitor    | MFD                                                        |
| 5   | Centrifugal Switch    |                                                            |
| 6   | Upper Bracket         | Cast Iron                                                  |
| 7   | Upper Ball Bearing    |                                                            |
| 7-1 | Lower Ball Bearing    |                                                            |
| 8   | Bolt                  | Stainless Steel                                            |
| 9   | Coil                  |                                                            |
| 10  | Shaft                 | Carbon Steel<br>Stainless Steel                            |
| 11  | Rotor                 | Steel Plate                                                |
| 12  | Stator                | Steel Plate                                                |
| 13  | Motor Casing          | Stainless Steel                                            |
| 14  | Hose Coupling         | Plastic/Cast Iron                                          |
| 15  | Mechanical Seal       | Ceramic Carbon(SS/SSA/SSM/SMA)<br>Silicon Carbide(SST/STA) |
| 16  | Flange Setter         | Cast Iron                                                  |
| 17  | Motor Lower Cover     | Cast Iron                                                  |
| 18  | Mechanical Seal Cover | Cast Iron                                                  |
| 19  | Oil Seal              | Synthetic Rubber                                           |
| 20  | Pump Casing           | Cast Iron                                                  |
| 21  | Impeller              | Cast Iron                                                  |
| 22  | Suction Cover         | Cast Iron                                                  |
| 23  | Strainer              | Plastic                                                    |
| 24  | Floating Switch       | SSA/STA/SMA                                                |

### Shredder Mechanism:

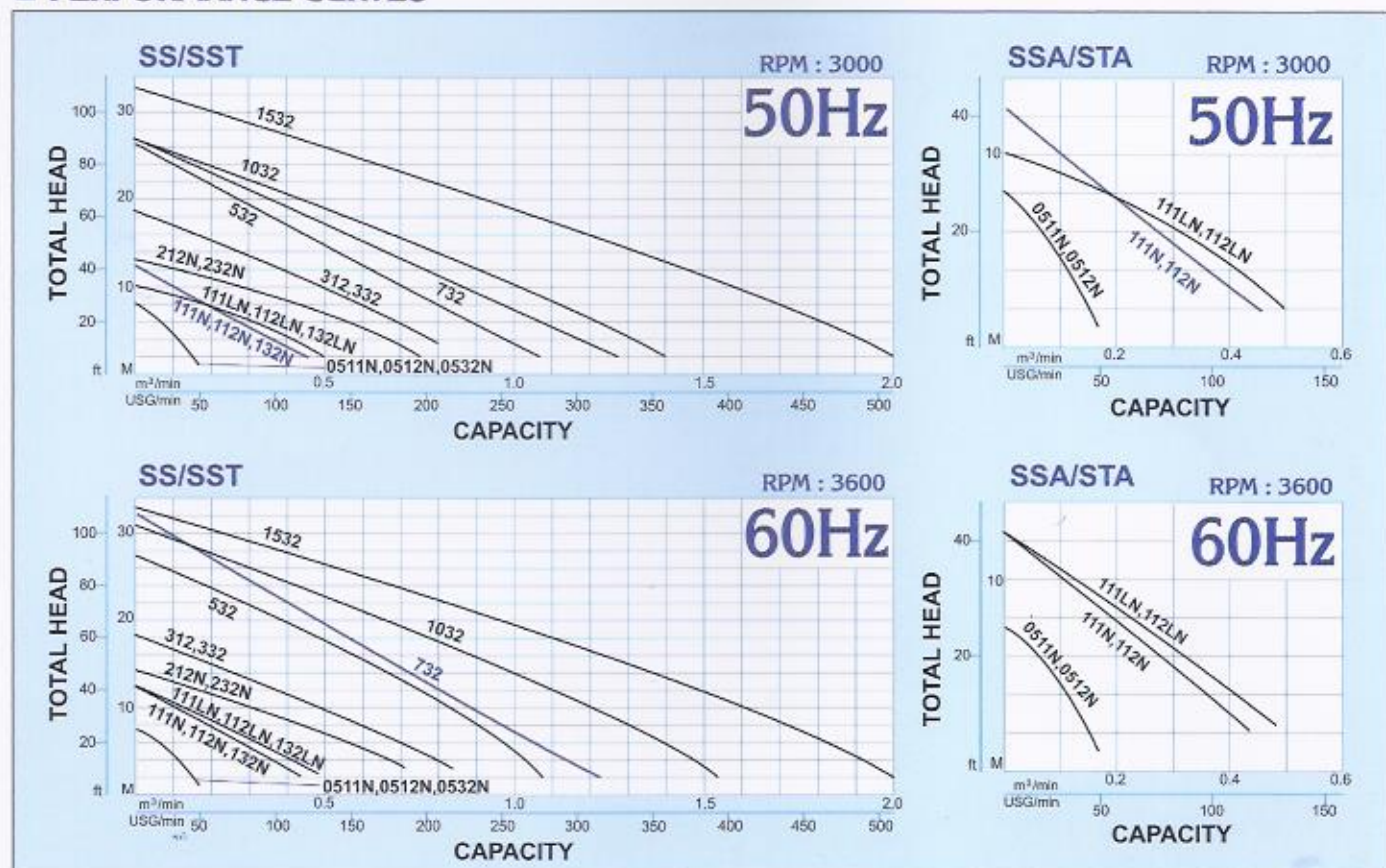




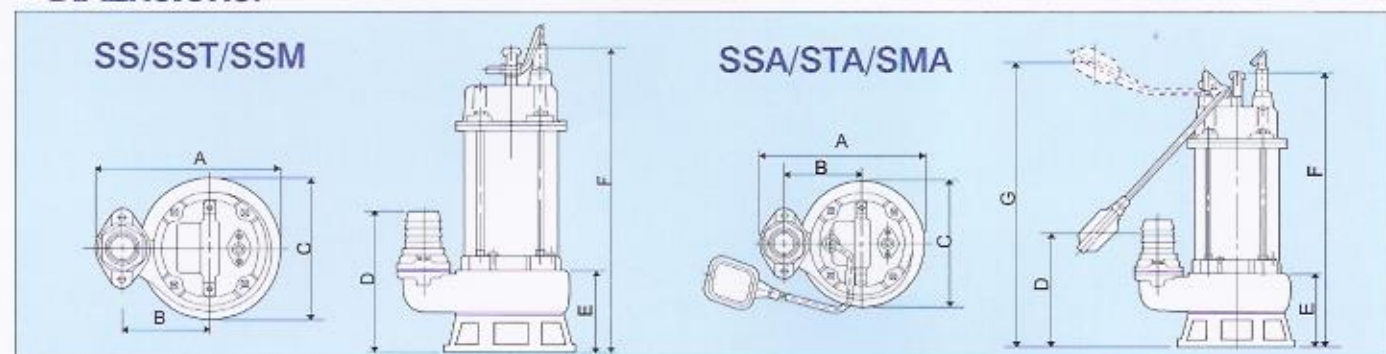
## SPECIFICATIONS:

| 型 式<br><br>TYPE |           | 電 動 機 MOTOR              |       |      |              | □ 徑<br><br>Disch.<br>Dia. |     | 50Hz                             |              | 60Hz         |      | 通 過<br>粒 徑<br>Solid<br>Passage | 電 纜<br>Cable         | 重 量<br>Weight                     | 尺 寸 SIZE |     |     |     |     |     |     |      |
|-----------------|-----------|--------------------------|-------|------|--------------|---------------------------|-----|----------------------------------|--------------|--------------|------|--------------------------------|----------------------|-----------------------------------|----------|-----|-----|-----|-----|-----|-----|------|
|                 |           | Power                    | Phase | Volt | Max.<br>Head |                           |     | Max.<br>Flow                     | Max.<br>Head | Max.<br>Flow | A    |                                |                      |                                   | B        | C   | D   | E   | F   | G   |     |      |
|                 |           | HP                       | kW    | PH   |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     | V   | inch |
| SS              | SST       | SS/SST : Manual Type     |       |      |              |                           |     | SS ( With Ceramic Carbon Seal )  |              |              |      |                                |                      | SST ( With Silicon Carbide Seal ) |          |     |     |     |     |     |     |      |
| SS-0511N        |           | 1/2                      | 0.4   | 1    | 110          | 2"                        | 50  | 8.0                              | 0.20         | 8.0          | 0.20 | 14                             | 1.25 <sup>2</sup> x6 | 11                                | 230      | 102 | 180 | 165 | 85  | 350 |     |      |
| SS-0512N        |           |                          |       | 220  |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-0532N        |           |                          |       | 3    | 200-480      |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-111N         | SST-111N  | 1                        | 0.75  | 1    | 110          | 2"                        | 50  | 12.4                             | 0.50         | 12.5         | 0.52 | 25                             | 2 <sup>2</sup> x6    | 22                                | 290      | 135 | 225 | 205 | 115 | 470 |     |      |
| SS-112N         | SST-112N  |                          |       | 220  |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-132N         | SST-132N  |                          |       | 3    | 200-480      |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-111LN        | SST-111LN | 1                        | 0.75  | 1    | 110          | 3"                        | 80  | 10.0                             | 0.60         | 12.5         | 0.60 | 25                             | 2 <sup>2</sup> x6    | 24                                | 320      | 150 | 225 | 240 | 117 | 470 |     |      |
| SS-112LN        | SST-112LN |                          |       | 220  |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-132LN        | SST-132LN |                          |       | 3    | 200-480      |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SS-212N         | SST-212N  | 2                        | 1.5   | 1    | 200-480      | 3"                        | 80  | 13.0                             | 0.80         | 14.1         | 0.82 | 28                             | 3.5 <sup>2</sup> x10 | 36                                | 355      | 165 | 265 | 260 | 140 | 550 |     |      |
| SS-232N         | SST-232N  |                          |       | 3    | 200-480      |                           |     |                                  |              |              |      |                                |                      | 30                                | 355      | 165 | 265 | 260 | 140 | 445 |     |      |
| SS-312          | SST-312   | 3                        | 2.2   | 1    | 200-480      | 4"                        | 100 | 18.6                             | 0.80         | 18.2         | 0.92 | 28                             | 3.5 <sup>2</sup> x10 | 53                                | 410      | 192 | 265 | 290 | 140 | 580 |     |      |
| SS-332          | SST-332   |                          |       | 3    | 200-480      |                           |     |                                  |              |              |      |                                |                      | 45                                | 410      | 192 | 265 | 290 | 140 | 480 |     |      |
| SS-532          | SST-532   | 5                        | 3.7   | 3    | 200-480      | 4"                        | 100 | 26.4                             | 1.06         | 27.2         | 1.17 | 32                             | 3.5 <sup>2</sup> x10 | 49                                | 410      | 192 | 265 | 290 | 140 | 500 |     |      |
| SS-732          | SST-732   | 7 1/2                    | 5.5   | 3    | 200-480      | 4"                        | 100 | 27.0                             | 1.38         | 32.0         | 1.30 | 26                             | 5.5 <sup>2</sup> x10 | 77                                | 435      | 210 | 280 | 300 | 150 | 615 |     |      |
| SS-1032         | SST-1032  | 10                       | 7.5   | 3    | 200-480      | 4"                        | 100 | 27.0                             | 1.50         | 31.3         | 1.60 | 26                             | 5.5 <sup>2</sup> x10 | 88                                | 435      | 210 | 280 | 300 | 150 | 615 |     |      |
| SS-1532         | SST-1532  | 15                       | 11    | 3    | 200-480      | 4"                        | 100 | 32.8                             | 2.20         | 33.1         | 2.20 | 30                             | 8 <sup>2</sup> x10   | 120                               | 460      | 218 | 306 | 350 | 193 | 692 |     |      |
| SSA             | STA       | SSA /STA: Automatic Type |       |      |              |                           |     | SSA ( With Ceramic Carbon Seal ) |              |              |      |                                |                      | STA ( With Silicon Carbide Seal ) |          |     |     |     |     |     |     |      |
| SSA-0511N       |           | 1/2                      | 0.4   | 1    | 110          | 2"                        | 50  | 8.0                              | 0.20         | 8.0          | 0.20 | 14                             | 1.25 <sup>2</sup> x6 | 11.18                             | 230      | 102 | 180 | 110 | 85  | 390 | 320 |      |
| SSA-0512N       |           |                          |       | 220  |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SSA-111N        | STA-111N  |                          |       | 1    | 110          |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SSA-112N        | STA-112N  | 1                        | 0.75  | 1    | 220          | 2"                        | 50  | 12.4                             | 0.50         | 12.5         | 0.52 | 25                             | 2 <sup>2</sup> x6    | 22                                | 290      | 135 | 225 | 130 | 115 | 470 | 590 |      |
| SSA-111LN       | STA-111LN |                          |       | 1    | 110          |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |
| SSA-112LN       | STA-112LN |                          |       | 220  |              |                           |     |                                  |              |              |      |                                |                      |                                   |          |     |     |     |     |     |     |      |

## PERFORMANCE CURVES



## DIMENSIONS:





# SSM / SMA Submersible Vortex Pump

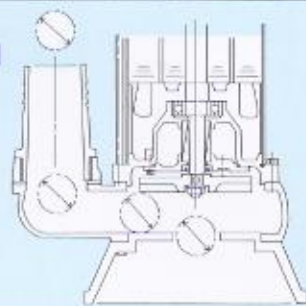
## FEATURES:

The specially designed non-clog impeller will create vortex inside the pump casing. The impeller without projection will be especially suitable for transportation of drainage containing belt-shaped piece goods and fiber materials.

## APPLICATIONS:

- Drainage of the sewerage/waste water from following industries.
1. Confined livestock feeding industry.
  2. Food stuff processing factory.
  3. Pulp and paper industry.
  4. Other relative industrial factories.

CROSS SECTION



## SPECIFICATIONS:

| 型 式<br><br>TYPE |            | 電 動 機 MOTOR       |       |      | □ 徑<br><br>Disch.<br>Dia. |      | 50Hz         |              | 60Hz                |              | 通過<br>粒徑<br>Solid<br>Passage | 電 纜<br>Cable         | 重 量<br>Weight        | 尺 寸    SIZE         |     |                    |     |     |     |     |     |
|-----------------|------------|-------------------|-------|------|---------------------------|------|--------------|--------------|---------------------|--------------|------------------------------|----------------------|----------------------|---------------------|-----|--------------------|-----|-----|-----|-----|-----|
|                 |            | Power             | Phase | Volt |                           |      | Max.<br>Head | Max.<br>Flow | Max.<br>Head        | Max.<br>Flow |                              |                      |                      | A                   | B   | C                  | D   | E   | F   | G   |     |
|                 |            | HP                | kW    | PH   | V                         | inch | mm           | M            | M <sup>3</sup> /MIN | M            |                              |                      |                      | M <sup>3</sup> /MIN | mm  | mm <sup>2</sup> xM | kG  | mm  | mm  | mm  | mm  |
| SSM             | SMA        | SSM : Manual Type |       |      |                           |      |              |              |                     |              |                              | SMA : Automatic Type |                      |                     |     |                    |     |     |     |     |     |
| SSM-0511N       | SMA-0511N  | 1/2               | 0.4   | 1    | 110                       | 2"   | 50           | 8.0          | 0.22                | 8.0          | 0.18                         | 4                    | 1.25 <sup>2</sup> x6 | 11                  | 230 | 102                | 180 | 165 | 85  | 350 | 320 |
| SSM-0512N       | SMA-0512N  |                   |       | 3    | 220                       |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-0532N       | SMA-0532N  |                   |       | 3    | 200-480                   |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-1111N       | SMA-1111N  | 1                 | 0.75  | 1    | 110                       | 2"   | 50           | 9.0          | 0.48                | 9.0          | 0.48                         | 13                   | 2 <sup>2</sup> x6    | 22                  | 290 | 135                | 225 | 205 | 115 | 470 | 590 |
| SSM-1121N       | SMA-1121N  |                   |       | 3    | 220                       |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-1321N       | SMA-1321N  |                   |       | 3    | 200-480                   |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-1111LN      | SMA-1111LN |                   |       | 1    | 110                       | 3"   | 80           | 8.0          | 0.55                | 9.0          | 0.52                         | 13                   | 2 <sup>2</sup> x6    | 24                  | 320 | 150                | 225 | 240 | 117 | 470 | 590 |
| SSM-1121LN      | SMA-1121LN |                   |       | 3    | 220                       |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-1321LN      | SMA-1321LN |                   |       | 3    | 200-480                   |      |              |              |                     |              |                              |                      |                      |                     |     |                    |     |     |     |     |     |
| SSM-2121N       |            | 2                 | 1.5   | 1    | 200-480                   | 3"   | 80           | 10.0         | 0.81                | 10.0         | 0.90                         | 15                   | 3.5 <sup>2</sup> x10 | 36                  | 355 | 165                | 265 | 260 | 140 | 550 |     |
| SSM-2321N       |            |                   |       | 3    | 200-480                   |      |              |              |                     |              |                              |                      |                      | 30                  | 355 | 165                | 265 | 260 | 140 | 445 |     |
| SSM-3121N       |            | 3                 | 2.2   | 1    | 200-480                   | 4"   | 100          | 12.0         | 0.90                | 14.0         | 1.00                         | 24                   | 3.5 <sup>2</sup> x10 | 53                  | 410 | 192                | 265 | 290 | 140 | 580 |     |
| SSM-3321N       |            |                   |       | 3    | 200-480                   |      |              |              |                     |              |                              |                      |                      | 45                  | 410 | 192                | 265 | 290 | 140 | 480 |     |
| SSM-5321N       |            | 5                 | 3.7   | 3    | 200-480                   | 4"   | 100          | 14.0         | 1.10                | 14.0         | 1.22                         | 28                   | 3.5 <sup>2</sup> x10 | 49                  | 410 | 192                | 265 | 290 | 140 | 500 |     |
| SSM-7321N       |            | 7 1/2             | 5.5   | 3    | 200-480                   | 4"   | 100          | 14.0         | 1.37                | 15.0         | 1.30                         | 22                   | 5.5 <sup>2</sup> x10 | 77                  | 435 | 210                | 280 | 300 | 150 | 615 |     |
| SSM-10321N      |            | 10                | 7.5   | 3    | 200-480                   | 4"   | 100          | 17.0         | 1.80                | 19.0         | 1.65                         | 19                   | 5.5 <sup>2</sup> x10 | 88                  | 435 | 210                | 280 | 300 | 150 | 615 |     |
| SSM-15321N      |            | 15                | 11    | 3    | 200-480                   | 4"   | 100          | 19.0         | 1.80                | 19.0         | 2.00                         | 22                   | 8 <sup>2</sup> x10   | 120                 | 460 | 218                | 306 | 350 | 193 | 692 |     |

## PERFORMANCE CURVES

