



Beyond Technology  
Beyond Service Value  
**Beyond Product Quality**



**Habaek** Co.,Ltd.



## Greeting

### We are in the water solution business with customer

We, Habaek Co., Ltd., are producing Sewage/Drainage pump, Axial/Mixed flow pump, Mixer, Volute pump and low head pump etc., we develop and improve our product by demanding market and customer needs.

In addition, we are making inroads not only into domestic market but also overseas market through continuous technology investment, global marketing network establishment, and after-sales management.

We promise to be a growing company first-class company through continuous technology development and improved quality until the day it becomes the best global company and pledge to grow into a company that can meet customer's demand.

## Organization



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Submersible  
Drain pump



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Construction pump



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Construction pump  
for High head

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Sewage pump



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Grinder pump



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Vortex pump

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Axial Flow pump



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Mixed flow pump



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Submersible Mixer



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Submersible  
for low head pump

# HSDR

## Submersible Drain pump

|                      |               |         |
|----------------------|---------------|---------|
| Standard<br>Material | Casing        | GC200   |
|                      | Shaft         | STS304  |
|                      | Impeller      | GC200   |
|                      | M/C Seal      | SIC/SIC |
|                      | Lifting chain | NOMAL   |

### Applications

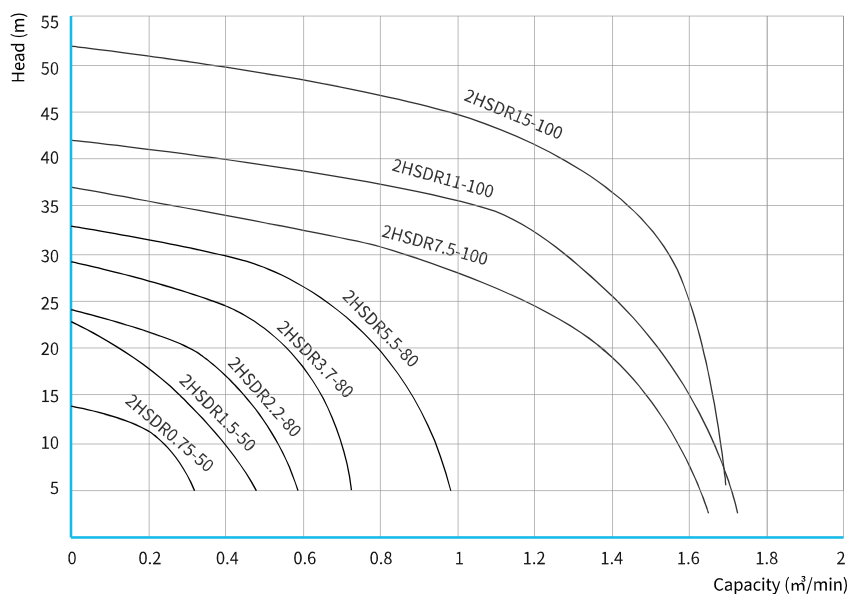
High head and low capacity  
Drainage for factory, building and sanitary facility

### Features

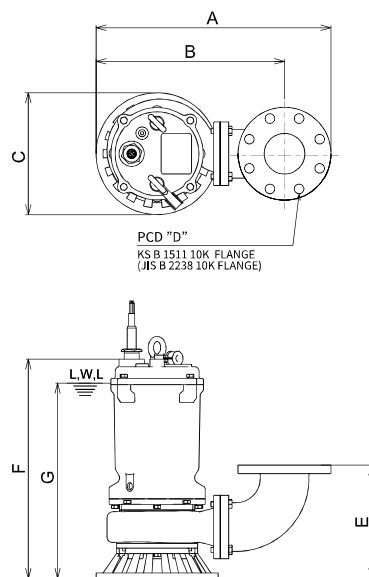
- Less clogging by semi-open impeller
- Double mechanical seal for tightening waterproof
- 2pole motor for better efficiency at high head
- Easier maintenance with automatic discharge connector



### Performance Curves



### Outline Drawing



| Model        | Power                   | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | A   | B   | C   | D   | E   | F   | G   |
|--------------|-------------------------|------|-------------|----------------|----------|-------------------|-----|-----|-----|-----|-----|-----|-----|
| 2HSDR0.75-50 | three phase / 380V 415V | 2P   | 0.75        | 50             | 12       | 0.16              | 405 | 325 | 220 | 120 | 170 | 370 | 320 |
| 2HSDR1.5-50  |                         |      | 1.5         |                | 15       | 0.25              | 430 | 350 | 250 | 120 | 200 | 430 | 370 |
| 2HSDR2.2-80  |                         |      | 2.2         |                | 20       | 0.3               | 470 | 380 | 250 | 150 | 220 | 450 | 385 |
| 2HSDR3.7-80  |                         |      | 3.7         | 80             | 20       | 0.5               | 475 | 380 | 250 | 150 | 230 | 500 | 430 |
| 2HSDR5.5-80  |                         |      | 5.5         |                | 25       | 0.6               | 510 | 420 | 255 | 150 | 240 | 540 | 485 |
| 2HSDR7.5-100 |                         |      | 7.5         |                | 30       | 0.8               | 560 | 455 | 260 | 175 | 265 | 645 | 545 |
| 2HSDR11-100  |                         |      | 11          | 100            | 35       | 1                 | 640 | 535 | 360 | 175 | 295 | 925 | 705 |
| 2HSDR15-100  |                         |      | 15          |                | 40       | 1.2               | 640 | 535 | 360 | 175 | 295 | 925 | 705 |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding automatic discharge connector.

# HSCO

Submersible  
Construction  
pump

|                      |               |         |
|----------------------|---------------|---------|
| Standard<br>Material | Casing        | GC200   |
|                      | Shaft         | SM45C   |
|                      | Impeller      | GC200   |
|                      | M/C Seal      | SIC/SIC |
|                      | Lifting chain | NOMAL   |



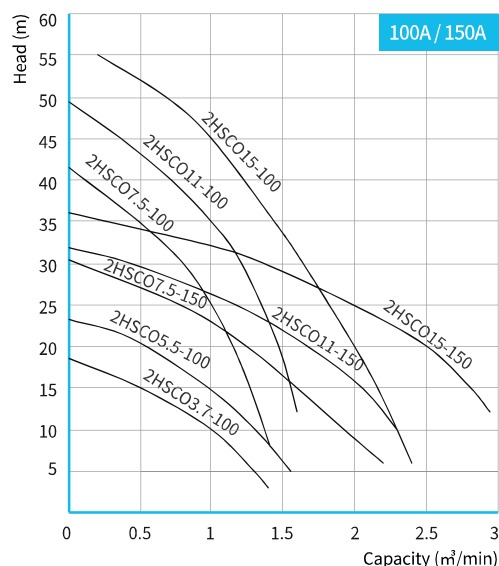
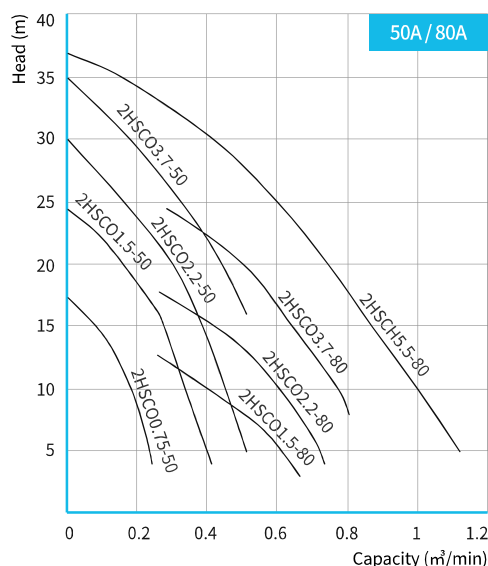
## Applications

Civil engineering, metro, dewatering of tunneling and ground works

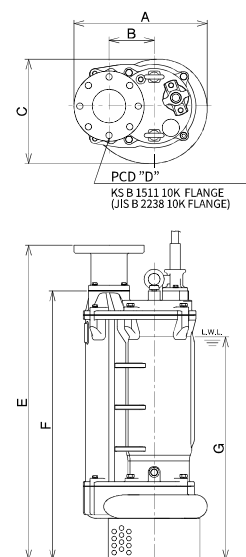
## Features

- Less clogging by semi-open impeller
- Double mechanical seal for tightening waterproof
- High performance cooling with upper discharge type
- Easier installation in narrow spaces

## Performance Curves



## Outline Drawing



| Model        | Power                   | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Weight (kg) | A   | B   | C   | D   | E   | F   | G   |
|--------------|-------------------------|------|-------------|----------------|----------|-------------------|-------------|-----|-----|-----|-----|-----|-----|-----|
| 2HSC00.75-50 | three phase / 380V 415V | 2P   | 0.75        | 50             | 12       | 0.16              | 35          | 200 | 120 | 190 | 120 | 460 | 340 | 320 |
| 2HSC01.5-50  |                         |      | 1.5         |                | 16.5     | 0.25              | 49          | 280 | 90  | 220 | 120 | 535 | 415 | 375 |
| 2HSC02.2-50  |                         |      | 2.2         |                | 20       | 0.3               | 54          |     |     |     |     |     |     |     |
| 2HSC03.7-50  |                         |      | 3.7         | 80             | 30       | 0.2               | 78          | 325 | 105 | 260 | 120 | 670 | 550 | 480 |
| 2HSC01.5-80  |                         |      | 1.5         |                | 8        | 0.5               | 49          | 295 | 90  | 220 | 150 | 535 | 415 | 375 |
| 2HSC02.2-80  |                         |      | 2.2         |                | 10       | 0.6               | 54          |     |     |     |     |     |     |     |
| 2HSC03.7-80  |                         |      | 3.7         | 100            | 20       | 0.5               | 78          | 325 | 105 | 260 | 150 | 725 | 600 | 480 |
| 2HSC05.5-80  |                         |      | 5.5         |                | 25       | 0.6               | 85          |     |     |     |     |     |     |     |
| 2HSC03.7-100 |                         |      | 3.7         | 150            | 10       | 1                 | 78          | 340 | 105 | 260 | 175 | 740 | 600 | 480 |
| 2HSC05.5-100 |                         |      | 5.5         |                | 15       | 1                 | 85          |     |     |     |     |     |     |     |
| 2HSC07.5-100 |                         |      | 7.5         |                | 30       | 0.8               | 128         | 400 | 135 | 315 | 175 | 850 | 710 | 630 |
| 2HSC011-100  |                         |      | 11          | 150            | 35       | 1                 | 171         | 400 | 135 | 330 | 175 | 945 | 805 | 675 |
| 2HSC015-100  |                         |      | 15          |                | 40       | 1.2               | 177         |     |     |     |     |     |     |     |
| 2HSC07.5-150 |                         |      | 7.5         |                | 15       | 1.6               | 132         | 430 | 135 | 315 | 240 | 865 | 710 | 630 |
| 2HSC011-150  |                         |      | 11          | 150            | 20       | 1.7               | 173         | 435 | 135 | 330 | 240 | 960 | 805 | 675 |
| 2HSC015-150  |                         |      | 15          |                | 20       | 2.5               | 182         |     |     |     |     |     |     |     |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding hose type connector.

# HSCH

Submersible  
Construction pump  
for High head

|                      |               |         |
|----------------------|---------------|---------|
| Standard<br>Material | Casing        | GC200   |
|                      | Shaft         | SM45C   |
|                      | Impeller      | GCD450  |
|                      | M/C Seal      | SIC/SIC |
|                      | Lifting chain | NOMAL   |



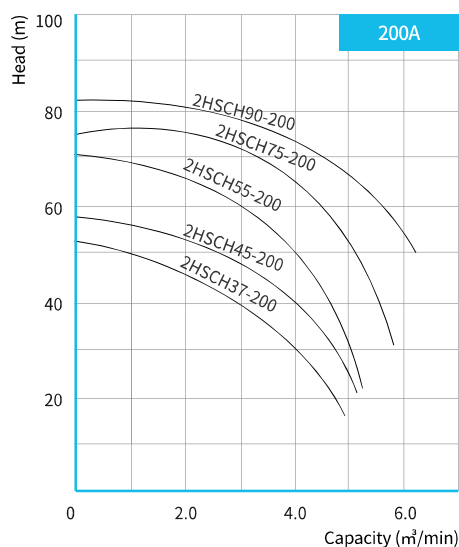
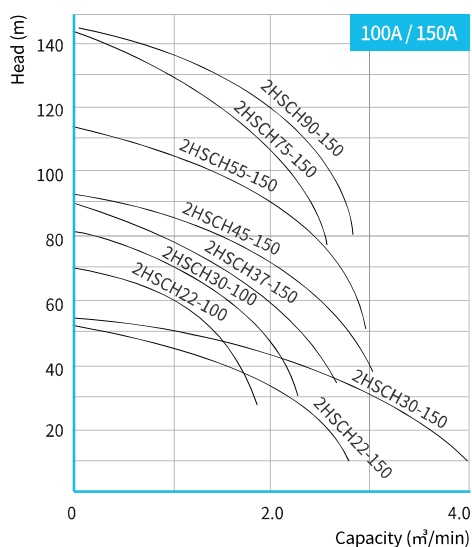
## Applications

Drainage a long distance at Shipyard, mining, reservoir and golf course  
Water supply & drainage for large scale sump pit  
Construction sit at road, harbor and dam

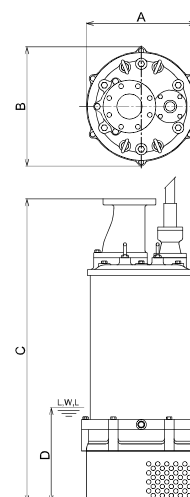
## Features

- Enclosed impeller type
- 2Pole motor for highest head with improve efficiency
- Double mechanical seal for tightening waterproof
- Higher performance cooling with upper discharge type

## Performance Curves



## Outline Drawing



| Model      | Power                         | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Weight (kg) | Dimensions |     |      |     |
|------------|-------------------------------|------|-------------|----------------|----------|-------------------|-------------|------------|-----|------|-----|
| 2HSC22-100 | three phase<br>/ 380V<br>415V | 2P   | 22          | 100            | 60       | 1                 | 410         | 440        | 470 | 1173 | 270 |
| 2HSC30-100 |                               |      | 30          |                | 70       | 1                 | 450         | 440        | 470 | 1173 | 270 |
| 2HSC22-150 |                               |      | 22          | 150            | 35       | 1.5               | 420         | 440        | 470 | 1159 | 270 |
| 2HSC30-150 |                               |      | 30          |                | 35       | 2.7               | 450         | 440        | 470 | 1159 | 270 |
| 2HSC37-150 |                               |      | 37          |                | 60       | 2                 | 570         | 550        | 550 | 1430 | 300 |
| 2HSC45-150 |                               |      | 45          |                | 60       | 2.5               | 610         | 550        | 550 | 1430 | 300 |
| 2HSC55-150 |                               |      | 55          |                | 90       | 2                 | 860         | 560        | 620 | 1510 | 360 |
| 2HSC75-150 |                               |      | 75          |                | 105      | 2                 | 930         | 560        | 620 | 1510 | 360 |
| 2HSC90-150 |                               |      | 90          |                | 120      | 2                 | 960         | 560        | 620 | 1510 | 360 |
| 2HSC37-200 |                               |      | 37          | 200            | 35       | 3.6               | 580         | 550        | 550 | 1430 | 300 |
| 2HSC45-200 |                               |      | 45          |                | 35       | 4.5               | 620         | 550        | 550 | 1430 | 300 |
| 2HSC55-200 |                               |      | 55          |                | 50       | 4                 | 870         | 560        | 620 | 1510 | 360 |
| 2HSC75-200 |                               |      | 75          |                | 60       | 4.5               | 940         | 560        | 620 | 1510 | 360 |
| 2HSC90-200 |                               |      | 90          |                | 70       | 4.5               | 970         | 560        | 620 | 1510 | 360 |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding hose type connector.

# HSSE

## Submersible Sewage pump

|                   |               |         |
|-------------------|---------------|---------|
| Standard Material | Casing        | GC200   |
|                   | Shaft         | STS410  |
|                   | Impeller      | GC200   |
|                   | M/C Seal      | SIC/SIC |
|                   | Lifting chain | NOMAL   |



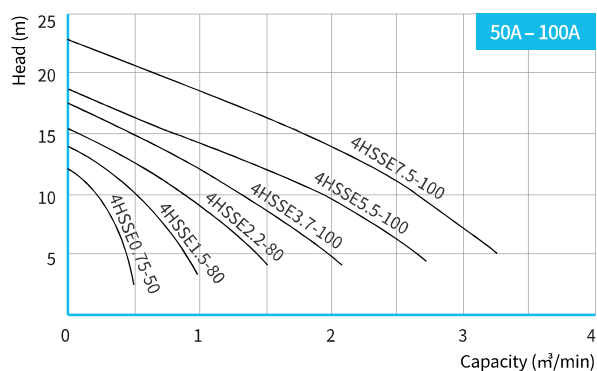
### Applications

Large scale water for industrial and agricultural use  
Large water transfer at river and reservoir  
Intake sewage water for treatment plant

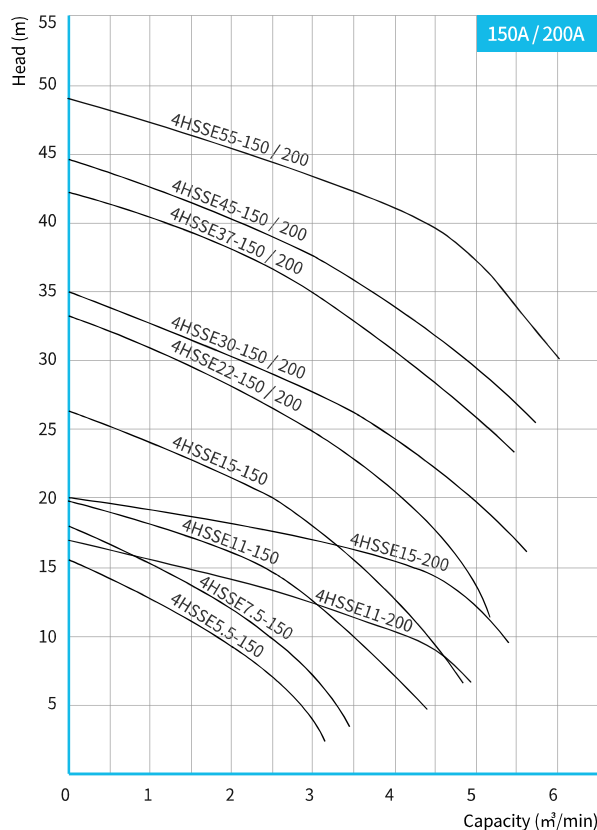
### Features

- Variant number of pole depend of capacity demand
- Easier maintenance with automatic discharge connector
- Double mechanical seal for tightening waterproof

### Performance Curves



| Model        | Power Pole                    | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|--------------|-------------------------------|-------------|----------------|----------|-------------------|
| 4HSSE0.75-50 | three phase<br>/ 380V<br>415V | 0.75        | 50             | 8        | 0.21              |
| 4HSSE1.5-80  |                               | 1.5         | 80             | 8        | 0.5               |
| 4HSSE2.2-80  |                               | 2.2         | 80             | 10       | 0.6               |
| 4HSSE3.7-100 |                               | 3.7         | 100            | 10       | 1                 |
| 4HSSE5.5-100 |                               | 5.5         | 100            | 14       |                   |
| 4HSSE7.5-100 |                               | 7.5         | 100            | 18       |                   |

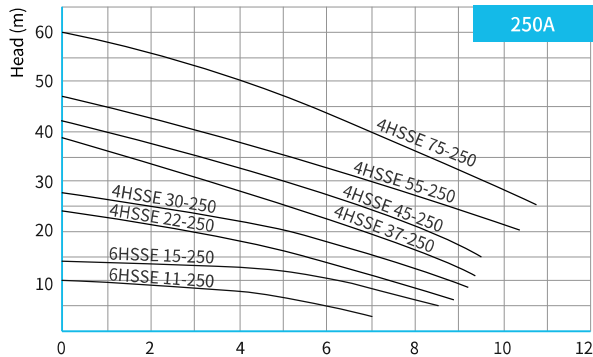


| Model        | Power Pole                    | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|--------------|-------------------------------|-------------|----------------|----------|-------------------|
| 4HSSE5.5-150 | three phase<br>/ 380V<br>415V | 5.5         | 150            | 6        | 2.5               |
| 4HSSE7.5-150 |                               | 7.5         | 150            | 9        |                   |
| 4HSSE11-150  |                               | 11          | 150            | 15       |                   |
| 4HSSE15-150  |                               | 15          | 150            | 20       |                   |
| 4HSSE22-150  |                               | 22          | 150            | 25       | 2.9               |
| 4HSSE30-150  |                               | 30          | 150            | 30       |                   |
| 4HSSE37-150  |                               | 37          | 150            | 33       |                   |
| 4HSSE45-150  |                               | 45          | 150            | 37       |                   |
| 4HSSE55-150  |                               | 55          | 150            | 41       |                   |

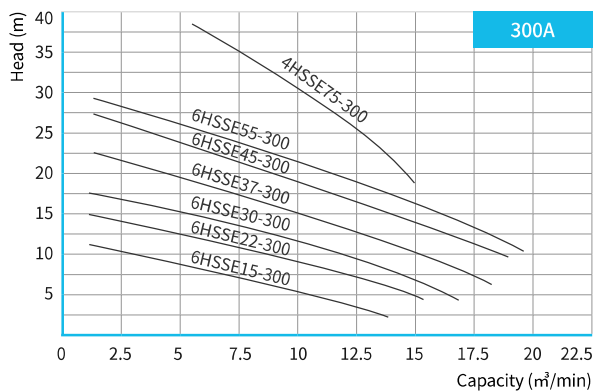
| Model       | Power Pole                    | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|-------------|-------------------------------|-------------|----------------|----------|-------------------|
| 4HSSE11-200 | three phase<br>/ 380V<br>415V | 11          | 200            | 9        | 4.5               |
| 4HSSE15-200 |                               | 15          | 200            | 14       |                   |
| 4HSSE15-200 |                               | 22          | 200            | 18       |                   |
| 4HSSE30-200 |                               | 30          | 200            | 22       |                   |
| 4HSSE37-200 |                               | 37          | 200            | 28       |                   |
| 4HSSE45-200 |                               | 45          | 200            | 32       |                   |
| 4HSSE55-200 |                               | 55          | 200            | 40       |                   |

# HSSE

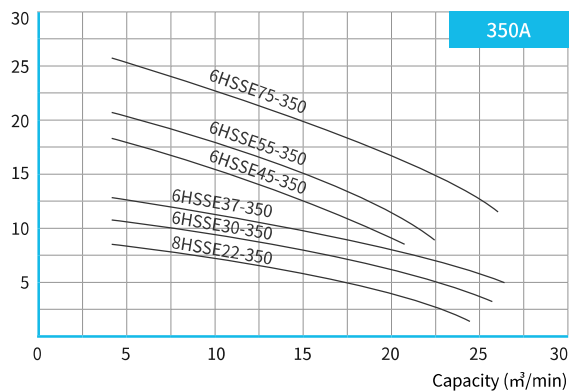
Submersible Sewage pump



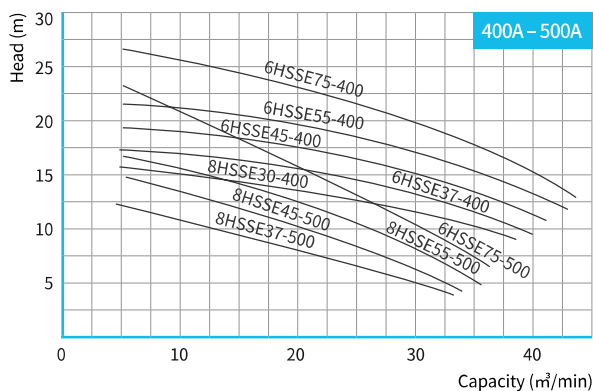
| Model       | Power                     | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|-------------|---------------------------|------|-------------|----------------|----------|-------------------|
| 4HSSE22-250 | three phase / 380V ~ 415V | 4P   | 22          | 250            | 11       | 7                 |
| 4HSSE30-250 |                           |      | 30          |                | 14       |                   |
| 4HSSE37-250 |                           |      | 37          |                | 19       |                   |
| 4HSSE45-250 |                           |      | 45          |                | 24       |                   |
| 4HSSE55-250 |                           |      | 55          |                | 30       |                   |
| 4HSSE75-250 |                           |      | 75          |                | 40       |                   |
| 6HSSE11-250 |                           | 6P   | 11          |                | 6        |                   |
| 6HSSE15-250 |                           |      | 15          |                | 9        |                   |



| Model       | Power                     | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|-------------|---------------------------|------|-------------|----------------|----------|-------------------|
| 4HSSE75-300 | three phase / 380V ~ 415V | 4P   | 75          | 300            | 31       | 10                |
| 6HSSE15-300 |                           | 6P   | 15          |                | 6        |                   |
| 6HSSE22-300 |                           |      | 22          |                | 9        |                   |
| 6HSSE30-300 |                           |      | 30          |                | 11       |                   |
| 6HSSE37-300 |                           |      | 37          |                | 15       |                   |
| 6HSSE45-300 |                           |      | 45          |                | 18       |                   |
| 6HSSE55-300 |                           |      | 55          |                | 21       |                   |



| Model       | Power                     | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|-------------|---------------------------|------|-------------|----------------|----------|-------------------|
| 6HSSE30-350 | three phase / 380V ~ 415V | 6P   | 30          | 350            | 7.5      | 15                |
| 6HSSE37-350 |                           |      | 37          |                | 9        |                   |
| 6HSSE45-350 |                           |      | 45          |                | 12       |                   |
| 6HSSE55-350 |                           |      | 55          |                | 14       |                   |
| 6HSSE75-350 |                           |      | 75          |                | 20       |                   |
| 8HSSE22-350 |                           | 8P   | 22          |                | 6        |                   |



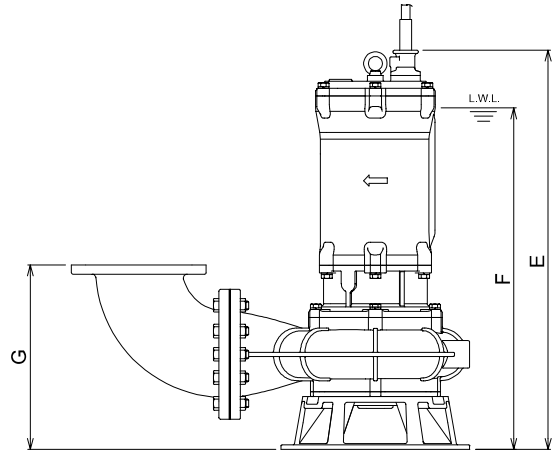
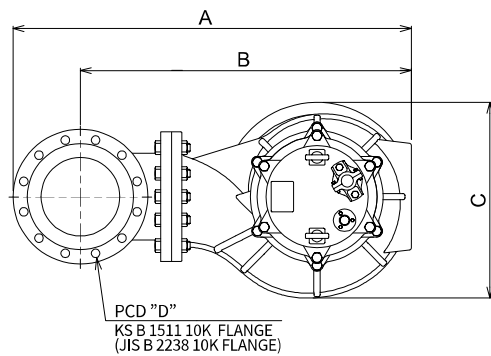
| Model       | Power                     | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) |
|-------------|---------------------------|------|-------------|----------------|----------|-------------------|
| 8HSSE30-400 | three phase / 380V ~ 415V | 8P   | 30          | 400            | 5        | 20                |
| 6HSSE37-400 |                           | 6P   | 37          |                | 7        |                   |
| 6HSSE45-400 |                           |      | 45          |                | 9        |                   |
| 6HSSE55-400 |                           |      | 55          |                | 12       |                   |
| 6HSSE75-400 |                           | 8P   | 75          | 500            | 16       | 30                |
| 8HSSE37-500 |                           |      | 37          |                | 5        |                   |
| 8HSSE45-500 |                           |      | 45          |                | 6        |                   |
| 8HSSE55-500 |                           |      | 55          |                | 7.5      |                   |
| 6HSSE75-500 |                           | 6P   | 75          |                | 10       |                   |



# HSSE

Submersible Sewage pump

## Outline Drawing



| Model        | Dimensions |      |     |     |      |      |     |
|--------------|------------|------|-----|-----|------|------|-----|
|              | A          | B    | C   | D   | E    | F    | G   |
| 4HSSE0.75-50 | 360        | 335  | 185 | 120 | 400  | 105  | 210 |
| 4HSSE1.5-80  | 490        | 430  | 225 | 150 | 600  | 185  | 230 |
| 4HSSE2.2-80  | 600        | 480  | 360 | 150 | 725  | 510  | 228 |
| 4HSSE3.7-100 | 640        | 590  | 360 | 175 | 770  | 540  | 300 |
| 4HSSE5.5-100 | 825        | 720  | 505 | 175 | 920  | 750  | 365 |
| 4HSSE7.5-100 |            |      |     |     |      |      |     |
| 4HSSE5.5-150 | 925        | 790  | 505 | 240 | 920  | 750  | 405 |
| 4HSSE7.5-150 |            |      |     |     |      |      |     |
| 4HSSE11-150  | 930        | 790  | 505 | 240 | 1010 | 850  | 394 |
| 4HSSE15-150  |            |      |     |     |      |      |     |
| 4HSSE22-150  | 925        | 785  | 525 | 240 | 1145 | 800  | 392 |
| 4HSSE30-150  |            |      |     |     |      |      |     |
| 4HSSE37-150  | 925        | 785  | 525 | 240 | 1350 | 945  | 392 |
| 4HSSE45-150  |            |      |     |     |      |      |     |
| 4HSSE55-150  |            |      |     |     |      |      |     |
| 4HSSE11-200  | 1015       | 850  | 510 | 290 | 1035 | 870  | 470 |
| 4HSSE15-200  |            |      |     |     |      |      |     |
| 4HSSE22-200  | 1110       | 945  | 610 | 290 | 1190 | 960  | 503 |
| 4HSSE30-200  |            |      |     |     |      |      |     |
| 4HSSE37-200  | 1110       | 945  | 610 | 290 | 1380 | 1115 | 503 |
| 4HSSE45-200  |            |      |     |     |      |      |     |
| 4HSSE55-200  |            |      |     |     |      |      |     |
| 6HSSE11-250  | 1250       | 1050 | 660 | 355 | 1200 | 840  | 638 |
| 6HSSE15-250  |            |      |     |     |      |      |     |
| 4HSSE22-250  | 1250       | 1050 | 660 | 355 | 1255 | 880  | 638 |
| 4HSSE30-250  |            |      |     |     |      |      |     |

| Model       | Dimensions |      |      |     |      |      |      |
|-------------|------------|------|------|-----|------|------|------|
|             | A          | B    | C    | D   | E    | F    | G    |
| 4HSSE37-250 | 1250       | 1050 | 660  | 355 | 1440 | 1010 | 638  |
| 4HSSE45-250 |            |      |      |     |      |      |      |
| 4HSSE55-250 |            |      |      |     |      |      |      |
| 4HSSE75-250 | 1470       | 1230 | 800  | 400 | 1010 | 705  | 677  |
| 6HSSE15-300 |            |      |      |     |      |      |      |
| 6HSSE22-300 |            |      |      |     |      |      |      |
| 6HSSE30-300 | 1470       | 1230 | 800  | 400 | 1330 | 930  | 677  |
| 6HSSE37-300 |            |      |      |     |      |      |      |
| 6HSSE45-300 |            |      |      |     |      |      |      |
| 6HSSE55-300 | 1470       | 1230 | 800  | 400 | 1520 | 1065 | 677  |
| 4HSSE75-300 |            |      |      |     |      |      |      |
| 8HSSE22-350 |            |      |      |     |      |      |      |
| 6HSSE30-350 | 1800       | 1535 | 1000 | 445 | 1650 | 1155 | 845  |
| 6HSSE37-350 |            |      |      |     |      |      |      |
| 6HSSE45-350 |            |      |      |     |      |      |      |
| 6HSSE55-350 | 1800       | 1535 | 1000 | 445 | 1670 | 1170 | 845  |
| 6HSSE75-350 |            |      |      |     |      |      |      |
| 8HSSE30-400 |            |      |      |     |      |      |      |
| 6HSSE37-400 | 2120       | 1840 | 1145 | 510 | 1610 | 1130 | 1080 |
| 6HSSE45-400 |            |      |      |     |      |      |      |
| 6HSSE55-400 |            |      |      |     |      |      |      |
| 6HSSE75-400 | 2120       | 1840 | 1145 | 510 | 1740 | 1220 | 1080 |
| 8HSSE37-500 |            |      |      |     |      |      |      |
| 8HSSE45-500 |            |      |      |     |      |      |      |
| 8HSSE55-500 | 2200       | 1845 | 1320 | 620 | 1960 | 1370 | 1140 |
| 6HSSE75-500 |            |      |      |     |      |      |      |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding automatic discharge connector.

# HSGR

## Submersible Grinder pump

### Standard Material

|               |         |
|---------------|---------|
| Casing        | GC200   |
| Shaft         | STS410  |
| Impeller      | STS304  |
| Cutter        | Hi-Cr   |
| Cutter Plate  | Hi-Cr   |
| M/C Seal      | SIC/SIC |
| Lifting chain | NOMAL   |

### Applications

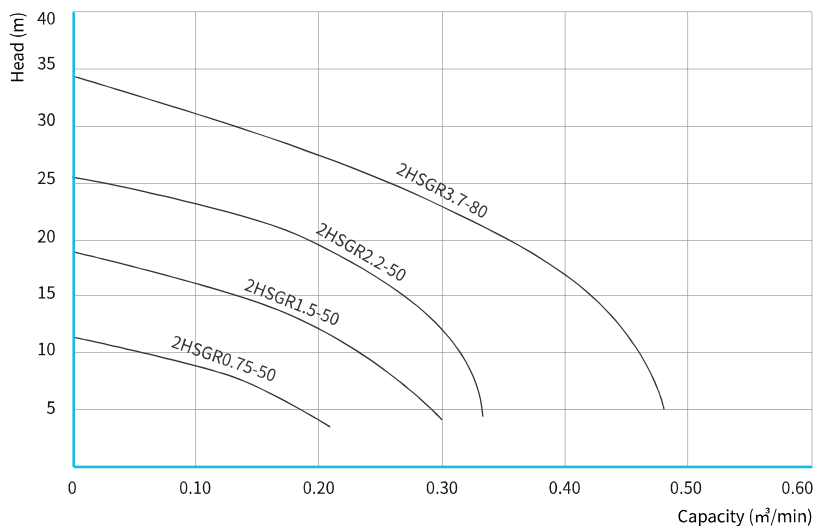
Transfer for heavy slurry water  
Wastewater at residential area

### Features

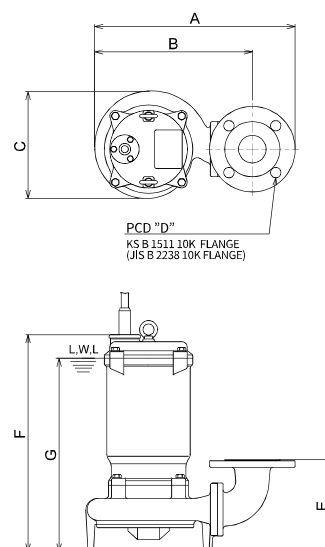
- Chrome alloy steel material of grinding type cutter
- Transfer by grinding of rope, a piece of cloth and vinyl waste
- 2pole motor for better efficiency at high head
- Double mechanical seal for tightening waterproof
- Easier maintenance with automatic discharge connector



### Performance Curves



### Outline Drawing



| Model        | Power                   | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Dimensions |     |     |     |     |     |     |
|--------------|-------------------------|------|-------------|----------------|----------|-------------------|------------|-----|-----|-----|-----|-----|-----|
|              |                         |      |             |                |          |                   | A          | B   | C   | D   | E   | F   | G   |
| 2HSGR0.75-50 | three phase / 380V 415V | 2P   | 0.75        | 50             | 8        | 0.12              | 375        | 295 | 205 | 120 | 170 | 440 | 230 |
| 2HSGR1.5-50  |                         |      | 1.5         |                | 12       | 0.18              | 375        | 295 | 205 | 120 | 170 | 460 | 350 |
| 2HSGR2.2-50  |                         |      | 2.2         |                | 16       | 0.24              | 375        | 295 | 205 | 120 | 170 | 490 | 380 |
| 2HSGR3.7-80  |                         |      | 3.7         | 80             | 22       | 0.3               | 490        | 395 | 255 | 150 | 240 | 600 | 475 |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding automatic discharge connector.

\* Please contact us regarding exceed motor rate and number of poles.

# HSVO

## Submersible Vortex pump

|                      |               |         |
|----------------------|---------------|---------|
| Standard<br>Material | Casing        | GC200   |
|                      | Shaft         | STS304  |
|                      | Impeller      | GC200   |
|                      | M/C Seal      | SIC/SIC |
|                      | Lifting chain | NOMAL   |



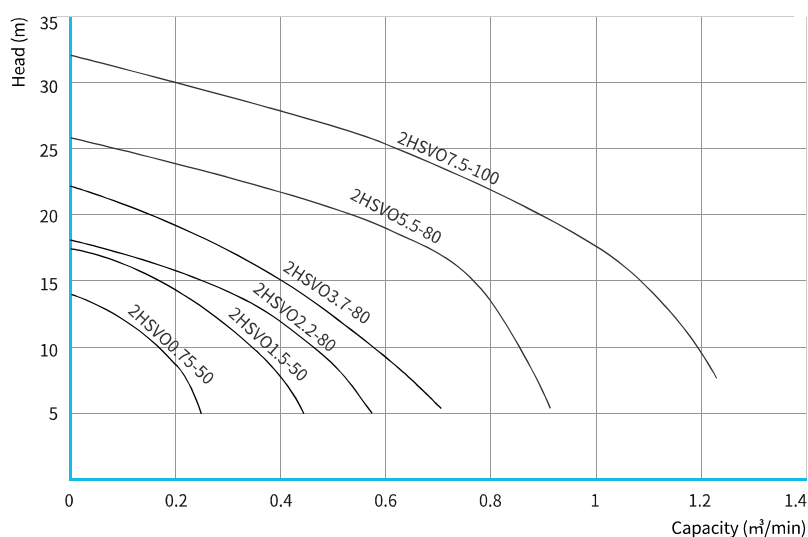
### Applications

Transfer for heavy slurry and sewage water  
Sewage water transfer of sanitary facility, residential area, livestock industry

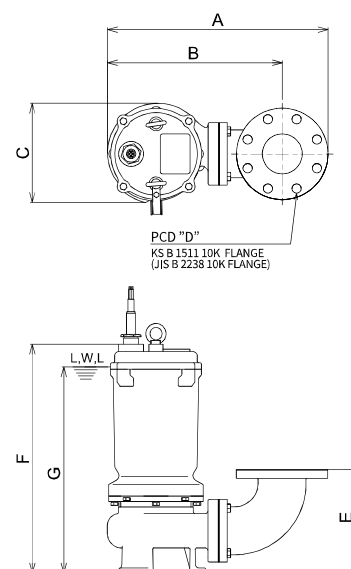
### Features

- Vortex type impeller for solid passing
- Double mechanical seal for tightening waterproof
- Easier maintenance with automatic discharge connector

### Performance Curves



### Outline Drawing



| Model        | Power                         | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Dimensions |     |     |     |     |     |     |
|--------------|-------------------------------|------|-------------|----------------|----------|-------------------|------------|-----|-----|-----|-----|-----|-----|
|              |                               |      |             |                |          |                   | A          | B   | C   | D   | E   | F   | G   |
| 2HSVO0.75-50 | three phase<br>/ 380V<br>415V | 2P   | 0.75        | 50             | 10       | 0.16              | 385        | 310 | 185 | 120 | 155 | 365 | 315 |
| 2HSVO1.5-50  |                               |      | 1.5         |                | 14       | 0.2               | 385        | 310 | 175 | 120 | 155 | 390 | 340 |
| 2HSVO2.2-80  |                               |      | 2.2         | 80             | 12       | 0.4               | 450        | 360 | 210 | 150 | 203 | 450 | 390 |
| 2HSVO3.7-80  |                               |      | 3.7         |                | 15       | 0.4               | 450        | 360 | 210 | 150 | 203 | 480 | 420 |
| 2HSVO5.5-80  |                               |      | 5.5         |                | 17       | 0.7               | 530        | 435 | 280 | 150 | 289 | 610 | 560 |
| 2HSVO7.5-100 |                               |      | 7.5         | 100            | 22       | 0.7               | 570        | 465 | 280 | 175 | 312 | 715 | 615 |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding automatic discharge connector.

# HSAX

Submersible  
Axial flow  
pump

## Standard Material

|                |               |
|----------------|---------------|
| Casing         | GC200         |
| Shaft          | STS410        |
| Propeller Vane | AlBrC3/STS304 |
| M/S Seal       | SIC/SIC       |
| Wire rope      | STS304        |



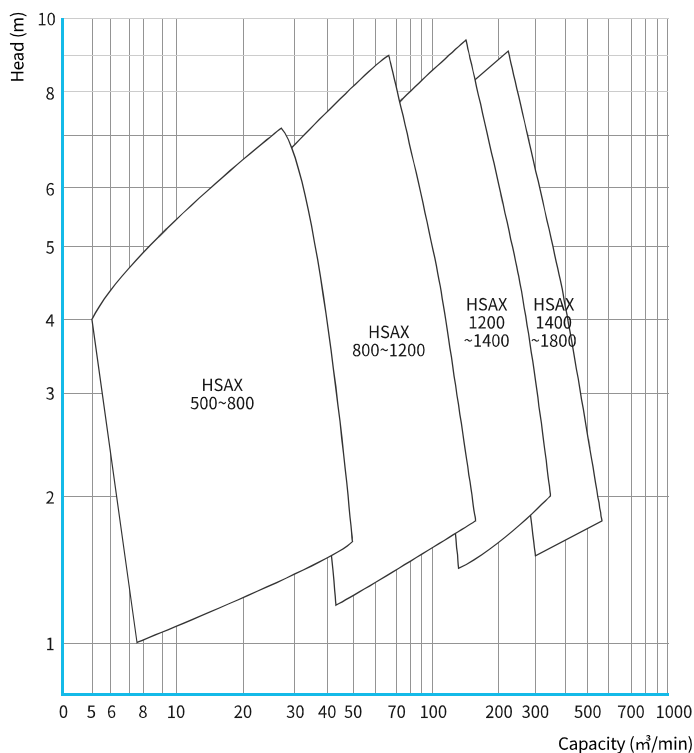
## Applications

Water supply and drainage for low head and large capacity  
Storm water and agricultural pumping station  
Intake & discharge pump of wastewater treatment pumping station

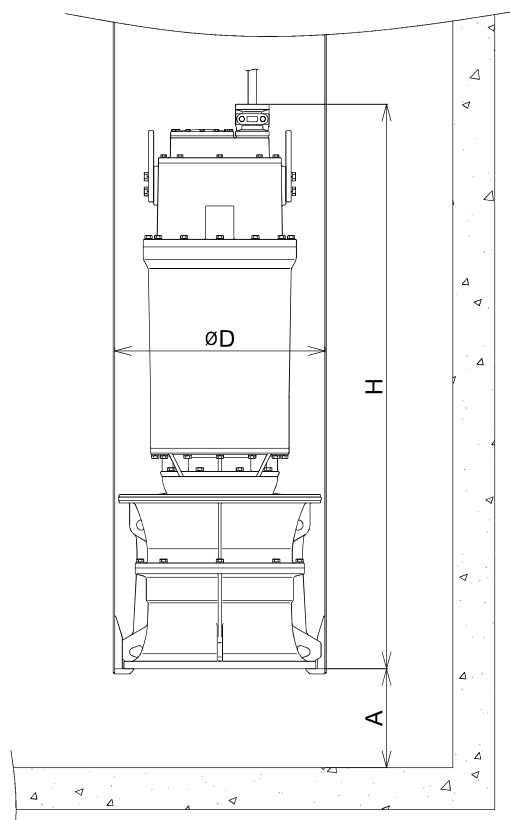
## Features

- Simple structure for easier maintenance
- Save construction cost by reducing space for installation
- Various sensors built-in for protect pump

## Performance Curves



## Outline Drawing





| Model          | Pole | Output (kW) | Head (m) | Capacity (m <sup>3</sup> /min) | D(mm) | Dimensions H(mm) | A(mm) |
|----------------|------|-------------|----------|--------------------------------|-------|------------------|-------|
| 6HSAX11-300    | 6    | 11          | 3.5      | 12                             | 500   | 890              | 250   |
| 6HSAX15-300    | 6    | 15          | 4        | 15                             | 500   | 940              | 250   |
| 6HSAX22-400    | 6    | 22          | 4        | 22                             | 600   | 1300             | 300   |
| 6HSAX30-400    | 6    | 30          | 4        | 30                             | 600   | 1500             | 300   |
| 6HSAX37-400    | 6    | 37          | 4.5      | 34                             | 600   | 1500             | 300   |
| 6HSAX45-400    | 6    | 45          | 5        | 35                             | 600   | 1500             | 300   |
| 8HSAX37-500    | 8    | 37          | 4        | 35                             | 700   | 1590             | 350   |
| 8HSAX45-500    | 8    | 45          | 5        | 35                             | 700   | 1660             | 350   |
| 8HSAX55-500    | 8    | 55          | 5        | 45                             | 700   | 1690             | 350   |
| 8HSAX75-500    | 8    | 75          | 5        | 55                             | 700   | 1690             | 350   |
| 10HSAX22-500   | 10   | 22          | 3.5      | 22                             | 700   | 1650             | 350   |
| 10HSAX30-500   | 10   | 30          | 3.5      | 30                             | 700   | 1650             | 350   |
| 10HSAX37-500   | 10   | 37          | 3.5      | 37                             | 700   | 1750             | 350   |
| 8HSAX75-600    | 8    | 75          | 6        | 50                             | 800   | 1750             | 400   |
| 8HSAX90-600    | 8    | 90          | 6        | 60                             | 800   | 2100             | 400   |
| 8HSAX110-700   | 8    | 110         | 6        | 70                             | 900   | 2250             | 450   |
| 8HSAX132-700   | 8    | 132         | 6        | 80                             | 900   | 2250             | 450   |
| 8HSAX150-700   | 8    | 150         | 6        | 90                             | 900   | 2450             | 450   |
| 10HSAX45-700   | 10   | 45          | 4        | 45                             | 900   | 2250             | 450   |
| 10HSAX55-700   | 10   | 55          | 4        | 55                             | 900   | 2250             | 450   |
| 10HSAX75-700   | 10   | 75          | 5        | 60                             | 900   | 2250             | 450   |
| 10HSAX90-700   | 10   | 90          | 5        | 66                             | 900   | 2250             | 450   |
| 10HSAX132-800  | 10   | 132         | 7        | 80                             | 1000  | 2550             | 500   |
| 10HSAX160-800  | 10   | 160         | 7        | 90                             | 1000  | 2650             | 500   |
| 10HSAX200-800  | 10   | 200         | 7        | 120                            | 1000  | 2650             | 500   |
| 10HSAX250-800  | 10   | 250         | 7        | 150                            | 1000  | 2650             | 500   |
| 12HSAX90-800   | 12   | 90          | 5        | 75                             | 1000  | 2550             | 500   |
| 12HSAX132-800  | 12   | 132         | 5        | 100                            | 1000  | 2550             | 500   |
| 12HSAX160-800  | 12   | 160         | 5        | 120                            | 1000  | 2650             | 500   |
| 14HSAX160-1000 | 14   | 160         | 5        | 125                            | 1200  | 2850             | 600   |
| 14HSAX200-1000 | 14   | 200         | 6        | 130                            | 1200  | 2850             | 600   |
| 14HSAX250-1000 | 14   | 250         | 6        | 160                            | 1200  | 2950             | 600   |
| 14HSAX250-1200 | 14   | 250         | 6        | 180                            | 1400  | 3150             | 700   |
| 14HSAX300-1200 | 14   | 300         | 7        | 180                            | 1400  | 3150             | 700   |
| 14HSAX375-1200 | 14   | 375         | 7        | 210                            | 1400  | 3150             | 700   |
| 14HSAX450-1200 | 14   | 450         | 7        | 240                            | 1400  | 3300             | 700   |
| 16HSAX160-1200 | 16   | 160         | 4        | 170                            | 1400  | 3200             | 700   |
| 16HSAX200-1200 | 16   | 200         | 5        | 170                            | 1400  | 3200             | 700   |
| 16HSAX250-1200 | 16   | 250         | 5.5      | 200                            | 1400  | 3300             | 700   |
| 16HSAX300-1200 | 16   | 300         | 6        | 210                            | 1400  | 3300             | 700   |
| 14HSAX375-1350 | 14   | 375         | 5.5      | 300                            | 1500  | 3450             | 750   |
| 14HSAX450-1350 | 14   | 450         | 6        | 320                            | 1500  | 3450             | 750   |
| 14HSAX500-1350 | 14   | 500         | 6.5      | 330                            | 1500  | 3550             | 750   |
| 14HSAX550-1350 | 14   | 550         | 6.5      | 360                            | 1500  | 3550             | 750   |
| 14HSAX600-1350 | 14   | 600         | 7        | 360                            | 1500  | 3550             | 750   |
| 18HSAX500-1650 | 18   | 500         | 5.5      | 380                            | 1800  | 4000             | 900   |
| 18HSAX550-1650 | 18   | 550         | 6        | 400                            | 1800  | 4000             | 900   |
| 18HSAX600-1650 | 18   | 600         | 6.5      | 400                            | 1800  | 4000             | 900   |
| 18HSAX700-1650 | 18   | 700         | 7        | 430                            | 1800  | 4000             | 900   |
| 18HSAX800-1650 | 18   | 800         | 8        | 430                            | 1800  | 4000             | 900   |

\* The above dimensions might be changed without further notification.

# HSMF

Submersible  
Mixed flow  
pump

## Standard Material

|           |               |
|-----------|---------------|
| Casing    | GC200         |
| Shaft     | STS410        |
| Impeller  | AlBrC3/STS304 |
| M/S Seal  | SIC/SIC       |
| Wire rope | STS304        |



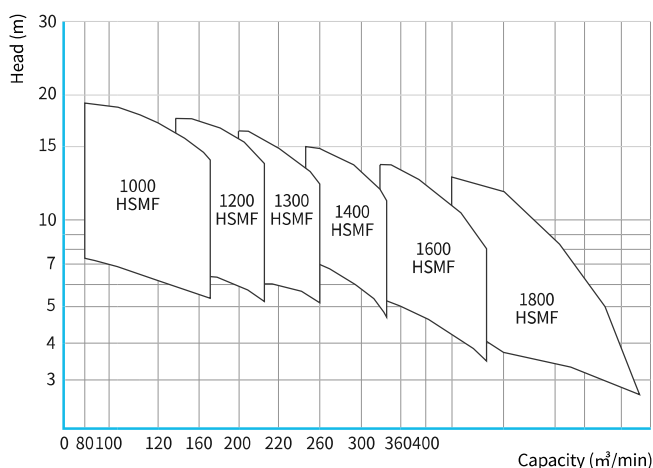
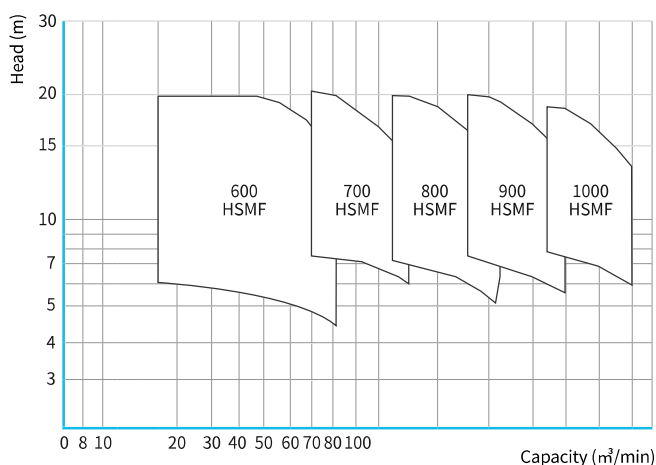
## Applications

Water supply and drainage for low head and large capacity  
Storm water and agricultural pumping station  
Intake & discharge pump of wastewater treatment pumping station

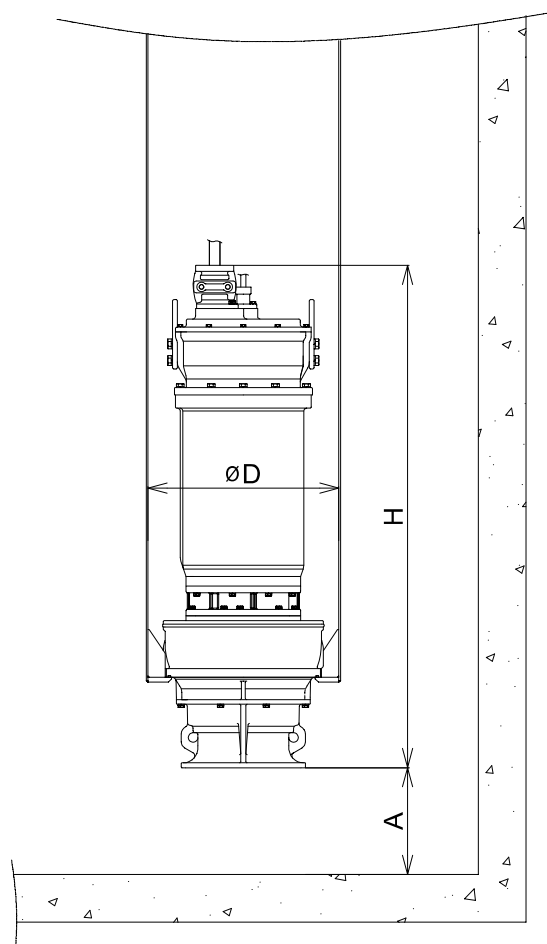
## Features

- Simple structure for easier maintenance
- Variant applications with wide head range
- Save construction cost by reducing space for installation
- Various sensors built-in for protect pump

## Performance Curves



## Outline Drawing



# HSMF

Submersible Mixed Flow pump

| Model          | Pole | Output<br>(kW) | Head<br>(m) | Capacity<br>(m <sup>3</sup> /min) | D(mm) | Dimensions<br>H(mm) | A(mm) |
|----------------|------|----------------|-------------|-----------------------------------|-------|---------------------|-------|
| 6HSMF30-400    | 6    | 30             | 5           | 25                                | 600   | 1610                | 300   |
| 6HSMF37-400    | 6    | 37             | 6           | 25                                | 600   | 1610                | 300   |
| 6HSMF37-500    | 6    | 37             | 10          | 15                                | 700   | 1780                | 350   |
| 6HSMF45-500    | 6    | 45             | 11          | 17                                | 700   | 1850                | 350   |
| 6HSMF55-500    | 6    | 55             | 12          | 19                                | 700   | 1870                | 350   |
| 8HSMF37-500    | 8    | 37             | 6           | 25                                | 700   | 1870                | 350   |
| 8HSMF45-500    | 8    | 45             | 7           | 26                                | 700   | 1870                | 350   |
| 8HSMF55-500    | 8    | 55             | 8           | 28                                | 700   | 1930                | 350   |
| 8HSMF75-500    | 8    | 75             | 9           | 34                                | 700   | 1930                | 350   |
| 8HSMF75-600    | 8    | 75             | 8           | 38                                | 800   | 2250                | 400   |
| 8HSMF90-600    | 8    | 90             | 9           | 40                                | 800   | 2250                | 400   |
| 8HSMF110-600   | 8    | 110            | 10          | 45                                | 800   | 2450                | 400   |
| 8HSMF110-700   | 8    | 110            | 8           | 55                                | 900   | 2650                | 450   |
| 8HSMF130-700   | 8    | 130            | 11          | 50                                | 900   | 2650                | 450   |
| 8HSMF150-700   | 8    | 150            | 12          | 50                                | 900   | 2650                | 450   |
| 8HSMF200-700   | 8    | 200            | 13          | 60                                | 900   | 2650                | 450   |
| 8HSMF220-700   | 8    | 220            | 14          | 65                                | 900   | 2800                | 450   |
| 10HSMF150-800  | 10   | 150            | 10          | 62                                | 1000  | 3000                | 500   |
| 10HSMF200-800  | 10   | 200            | 11          | 75                                | 1000  | 3000                | 500   |
| 10HSMF220-800  | 10   | 220            | 12          | 80                                | 1000  | 3200                | 500   |
| 10HSMF250-800  | 10   | 250            | 13          | 90                                | 1000  | 3200                | 500   |
| 10HSMF350-1000 | 10   | 350            | 12          | 120                               | 1200  | 3300                | 600   |
| 10HSMF400-1000 | 10   | 400            | 13          | 125                               | 1200  | 3300                | 600   |
| 10HSMF450-1000 | 10   | 450            | 14          | 130                               | 1300  | 3500                | 650   |
| 10HSMF500-1000 | 10   | 500            | 15          | 140                               | 1300  | 3500                | 650   |
| 12HSMF200-1000 | 12   | 200            | 9           | 90                                | 1200  | 3350                | 600   |
| 12HSMF220-1000 | 12   | 220            | 10          | 95                                | 1200  | 3350                | 600   |
| 12HSMF250-1000 | 12   | 250            | 11          | 100                               | 1300  | 3350                | 650   |
| 12HSMF300-1000 | 12   | 300            | 13          | 100                               | 1300  | 3500                | 650   |
| 12HSMF350-1000 | 12   | 350            | 14          | 110                               | 1300  | 3500                | 650   |
| 12HSMF450-1200 | 12   | 450            | 15          | 130                               | 1400  | 3700                | 700   |
| 12HSMF500-1200 | 12   | 500            | 15          | 140                               | 1400  | 3700                | 700   |
| 14HSMF550-1200 | 14   | 550            | 16          | 150                               | 1400  | 3900                | 700   |
| 14HSMF600-1200 | 14   | 600            | 16          | 160                               | 1500  | 3900                | 750   |
| 14HSMF650-1200 | 14   | 650            | 12          | 210                               | 1500  | 3900                | 750   |
| 16HSMF300-1200 | 16   | 300            | 6           | 210                               | 1500  | 3800                | 750   |
| 16HSMF350-1200 | 16   | 350            | 7           | 210                               | 1500  | 3900                | 750   |
| 16HSMF400-1200 | 16   | 400            | 8           | 210                               | 1500  | 3900                | 750   |
| 16HSMF450-1200 | 16   | 450            | 9           | 210                               | 1500  | 3900                | 750   |
| 18HSMF600-1400 | 18   | 600            | 10          | 250                               | 1600  | 4250                | 800   |
| 18HSMF650-1400 | 18   | 650            | 11          | 250                               | 1600  | 4250                | 800   |
| 18HSMF700-1400 | 18   | 700            | 12          | 250                               | 1600  | 4400                | 800   |
| 18HSMF750-1500 | 18   | 750            | 11          | 300                               | 1800  | 4400                | 900   |
| 18HSMF800-1500 | 18   | 800            | 12          | 300                               | 1800  | 4400                | 900   |

\* The above dimensions might be changed without further notification.

# HSSA

Submersible  
Sand and Gravel  
pump

## Standard Material

|               |         |
|---------------|---------|
| Casing        | GC200   |
| Shaft         | SM45C   |
| Impeller      | GCD450  |
| D-Cover       | Hi-Cr   |
| Agitator      | Hi-Cr   |
| M/C Seal      | SIC/SIC |
| Lifting chain | NOMAL   |



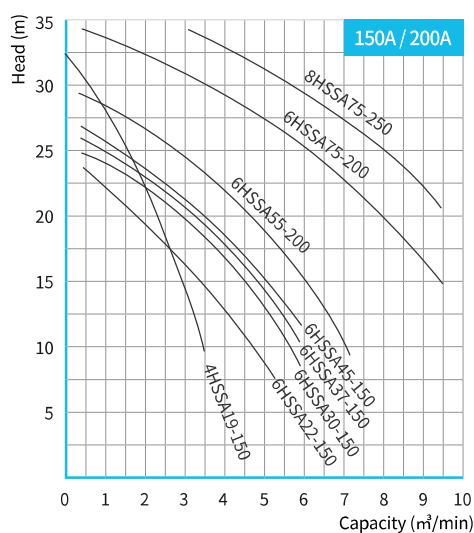
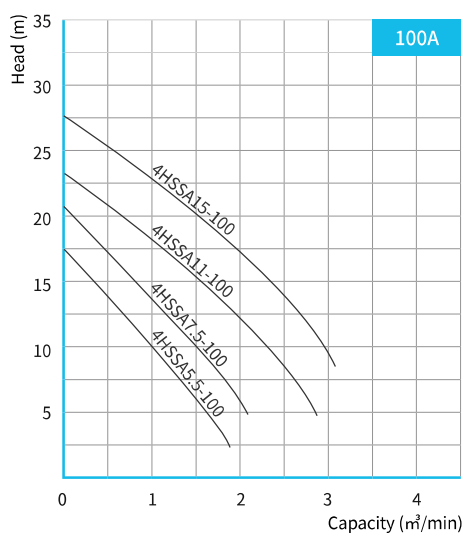
## Applications

Dredging work at harbor and river conservation  
Transfer sand, gravel at factory for mixed concrete

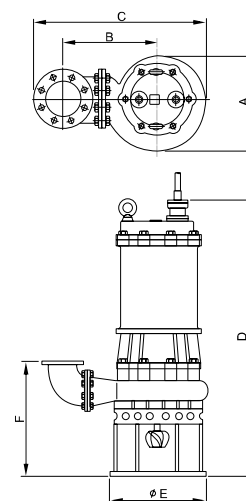
## Features

- Double mechanical seal for tightening waterproof
- Discharge sediment and sand by special design on agitator
- High chrome impeller, suction cover for improve the abrasion resistance

## Performance Curves



## Outline Drawing



| Model        | Power                         | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Weight (kg) | A   | B   | C    | D    | E   | F   |
|--------------|-------------------------------|------|-------------|----------------|----------|-------------------|-------------|-----|-----|------|------|-----|-----|
| 4HSSA5.5-100 | three phase<br>/ 380V<br>415V | 4P   | 5.5         | 100            | 10       | 1                 | 160         | 365 | 250 | 495  | 645  | 300 | 468 |
| 4HSSA7.5-100 |                               |      | 7.5         |                | 12       | 1.2               | 200         |     |     |      |      |     |     |
| 4HSSA11-100  |                               |      | 11          |                | 15       | 1.5               | 250         |     |     |      |      |     |     |
| 4HSSA15-100  |                               |      | 15          |                | 20       | 1.5               | 290         |     |     |      |      |     |     |
| 4HSSA19-100  |                               |      | 19          |                | 25       | 1.5               | 450         |     |     |      |      |     |     |
| 4HSSA22-100  |                               |      | 22          |                | 30       | 2.5               | 500         |     |     |      |      |     |     |
| 6HSSA22-150  |                               | 6P   | 22          | 150            | 15       | 3.2               | 480         | 700 | 300 | 1100 | 1400 | 550 | 575 |
| 6HSSA30-150  |                               |      | 30          |                | 18       | 3.2               | 510         |     |     |      |      |     |     |
| 6HSSA37-150  |                               |      | 37          |                | 20       | 3.2               | 600         |     |     |      |      |     |     |
| 6HSSA45-150  |                               |      | 45          |                | 15       | 5                 | 650         |     |     |      |      |     |     |
| 6HSSA55-200  |                               |      | 55          | 200            | 15       | 6                 | 690         | 800 | 350 | 1300 | 1600 | 550 | 600 |
| 6HSSA75-200  |                               |      | 75          |                | 20       | 8                 | 950         |     |     |      |      |     |     |
| 8HSSA75-250  |                               | 8P   | 75          | 250            | 25       | 8                 | 1150        | 365 | 250 | 495  | 645  | 300 | 468 |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding automatic discharge connector.

# HSMI

## Submersible Mixer

|                   |               |        |
|-------------------|---------------|--------|
| Standard Material | Casing        | GC200  |
|                   | Shaft         | STS410 |
|                   | Propeller     | STS304 |
|                   | Wear ring     | STS304 |
|                   | Lifting chain | STS304 |



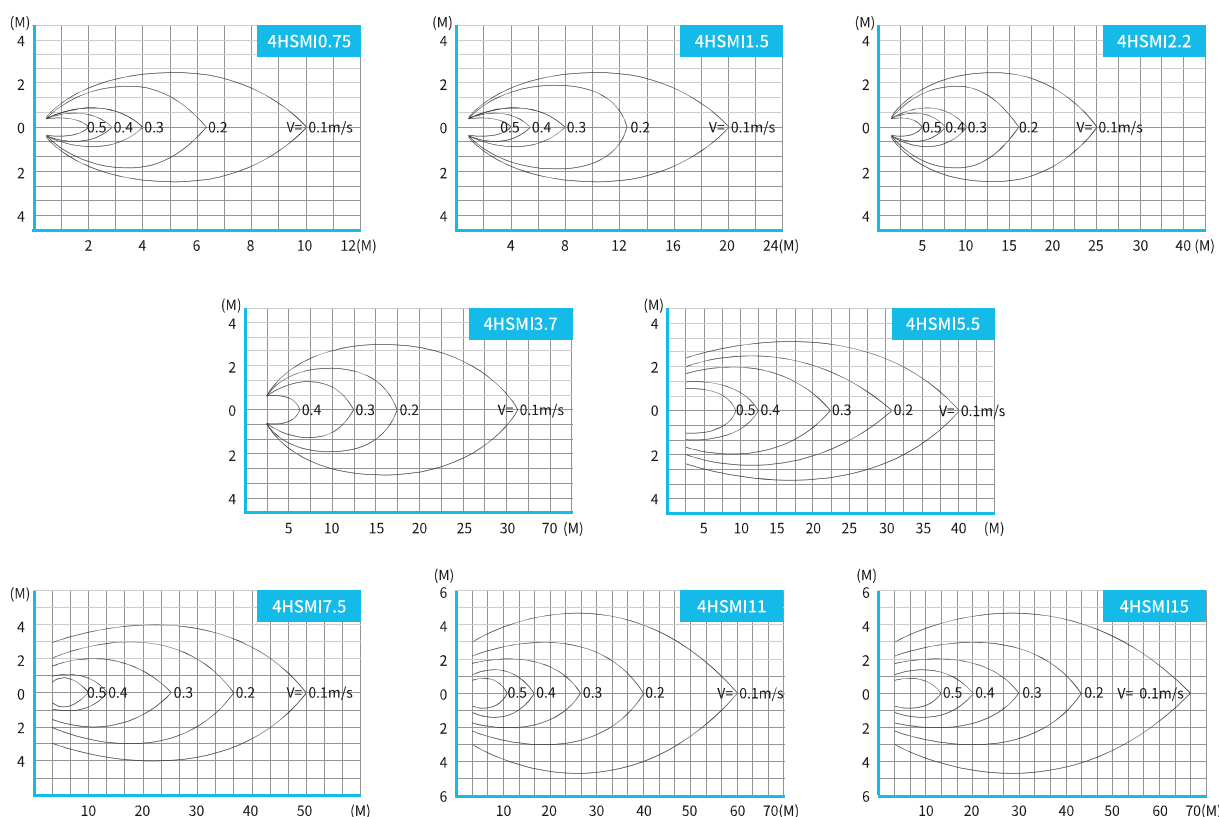
### Applications

Wastewater and sewage treatment plant  
Prevent sedimentation at detention tank and mix at anaerobic tank  
Prevent sedimentation of various solid like limestone, sand and cement

### Features

- Large capacity covered by multi pole motor
- Double mechanical seal for tightening waterproof
- Easy installation and lifting by simplified lifting device

### Performance Curves



| Model     | Power                | Pole | Output (kw) | Max. speed (m/s) | Max. tank volume (m³) | Max. mixing range (m) | Weight (kg) |
|-----------|----------------------|------|-------------|------------------|-----------------------|-----------------------|-------------|
| 4HSMI0.75 | three phase/<br>380V | 4P   | 0.75        | 0.5              | 50                    | 6                     | 65          |
| 4HSMI1.5  |                      |      | 1.5         |                  | 100                   | 12                    | 70          |
| 4HSMI2.2  |                      |      | 2.2         |                  | 150                   | 15                    | 75          |
| 4HSMI3.7  |                      |      | 3.7         | 0.4              | 200                   | 20                    | 80          |
| 4HSMI5.5  |                      | 6P   | 5.5         |                  | 300                   | 30                    | 130         |
| 4HSMI7.5  |                      |      | 7.5         |                  | 500                   | 35                    | 145         |
| 6HSMI11   |                      |      | 11          | 0.5              | 600                   | 40                    | 280         |
| 8HSMI15   |                      | 8P   | 15          |                  | 800                   | 45                    | 300         |

\* The above dimensions might be changed without further notification.

\* Please contact us regarding lifting device.



# HDSW

Dry pit  
Sea water ground  
pump

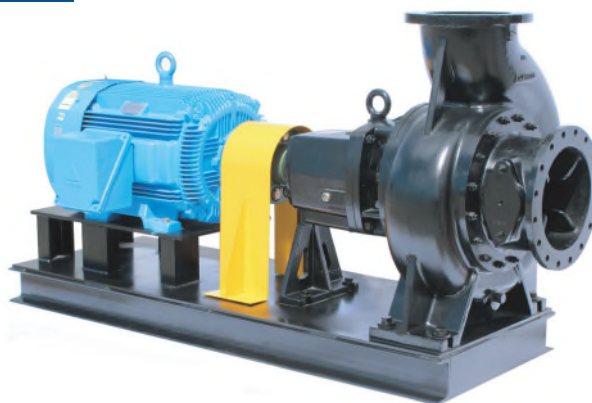
|                      |          |         |
|----------------------|----------|---------|
| Standard<br>Material | Casing   | STS304  |
|                      | Shaft    | STS304  |
|                      | Impeller | STS304  |
|                      | M/C Seal | SIC/SIC |

## Applications

Supply seawater at fish farming  
Circulation, drinking, water treatment, mining and industrial area

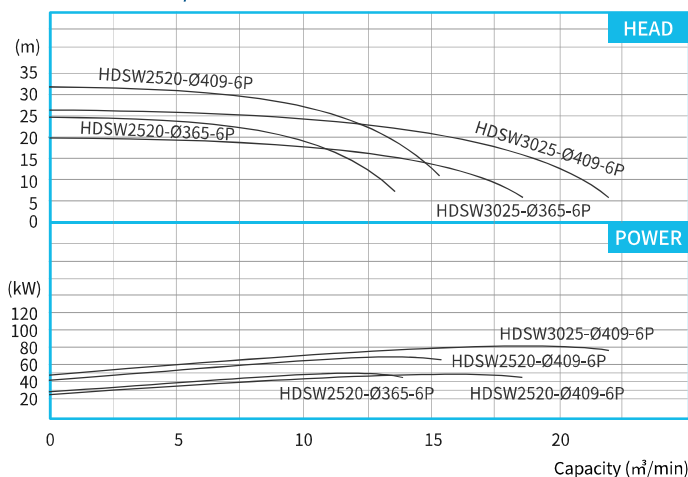
## Features

- Large capacity and various head
- Robust design and strengthen durability
- Stainless steel on hydraulic part for reinforce corrosion resistance

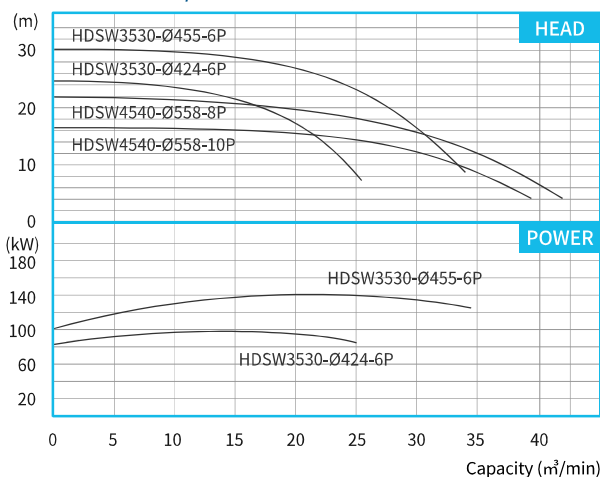


## Performance Curves

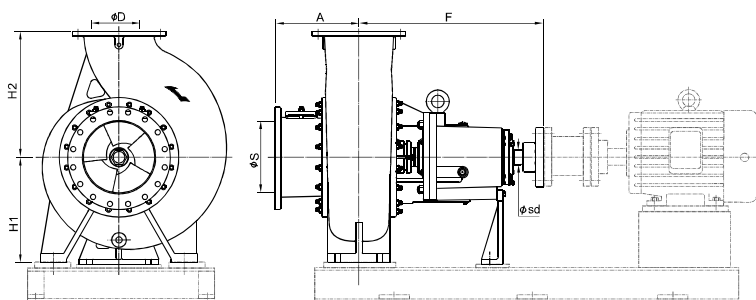
HDSW2520/3025 (6 Poles)



HDSW3530/4540 (6~10 Poles)



## Outline Drawing



| Model    | ØS  | ØD  | A   | F    | H1  | H2  | Øsd |
|----------|-----|-----|-----|------|-----|-----|-----|
| HDSW2520 | 250 | 200 | 350 | 750  | 360 | 450 | 55  |
| HDSW3025 | 300 | 250 | 385 | 875  | 400 | 500 | 70  |
| HDSW3530 | 350 | 300 | 400 | 880  | 600 | 500 | 70  |
| HDSW4540 | 450 | 400 | 450 | 1200 | 600 | 850 | 90  |

\* The above dimensions might be changed without further notification.

# HSLA

Submersible  
for low head  
pump

|                      |                    |        |
|----------------------|--------------------|--------|
| Standard<br>Material | Discharge casing   | FRP    |
|                      | Suction casing     | FRP    |
|                      | Out jacket         | STS304 |
|                      | Shaft              | STS410 |
|                      | Impeller/propeller | STS304 |



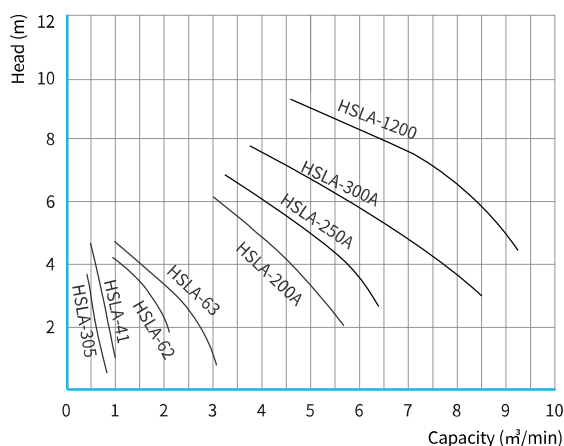
## Applications

Supply seawater at fish farming with low head  
Industrial, cooling water of power plant,  
Drainage for river and reservoir

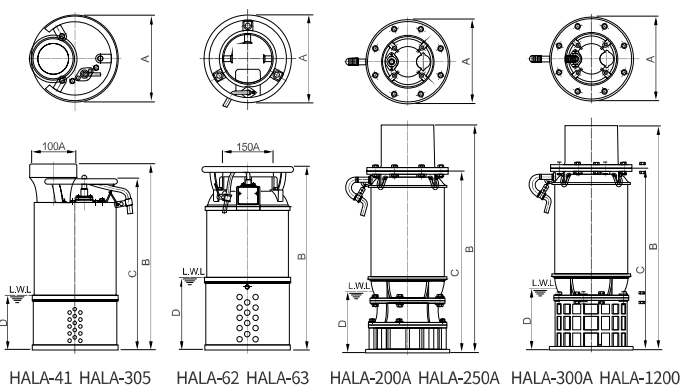
## Features

- Save electricity cost by higher efficiency at low head
- Improved life cycle by harmonize between impeller and shaft
- Lighten weight by using FRP material and improve corrosion resistance
- Compact design and double mechanical seal for tightening waterproof

## Performance Curves



## Outline Drawing



| Model     | Power             | Pole | Output (kW) | Discharge (mm) | Head (m) | Capacity (m³/min) | Weight (kg) | A   | Dimensions B | C   | D   |
|-----------|-------------------|------|-------------|----------------|----------|-------------------|-------------|-----|--------------|-----|-----|
| HSLA-305  | single phase/220V | 2P   | 0.4         | 80             | 3        | 0.5               | 25          | 225 | 484          | 447 | 180 |
| HSLA-305  | three phase/380V  |      | 0.4         | 80             | 3        | 0.5               | 25          |     |              |     |     |
| HSLA-41   | single phase/220V |      | 0.75        | 100            | 3        | 0.7               | 26          |     |              |     |     |
| HSLA-41   | three phase/380V  |      | 0.75        | 100            | 3        | 0.7               | 26          |     |              |     |     |
| HSLA-62   | three phase/380V  | 4P   | 1.5         | 150            | 2        | 2.2               | 51          | 285 | 597          | -   | 237 |
| HSLA-63   |                   |      | 2.2         | 150            | 3.5      | 2                 | 52          | 285 | 597          | -   | 237 |
| HSLA-200A |                   |      | 5.5         | 200            | 4.8      | 4                 | 119         | 340 | 923          | 733 | 250 |
| HSLA-250A |                   |      | 7.5         | 250            | 4.5      | 5.5               | 162         | 380 | 1015         | 802 | 300 |
| HSLA-300A |                   |      | 11          | 300            | 4.5      | 7                 | 201         | 430 | 1077         | 856 | 260 |
| HSLA-1200 |                   |      | 15          | 300            | 6.8      | 8                 | 273         | 430 | 1080         | 888 | 260 |

\* The above dimensions might be changed without further notification.



**HABA EK**

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