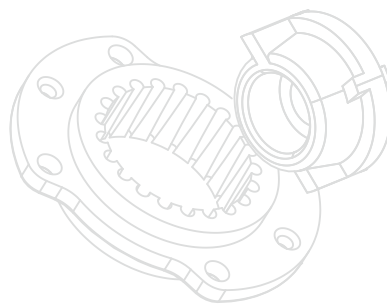




**GF** **60Hz**  
SERIES

SUBMERSIBLE GRINDER PUMPS



32GF21.0    32GF21.5(H)/22.2(H)    50GF22.2/23.7/24.5    50GF25.5(H)/27.5(H)    50GF211(H)

40GF21.5(H)  
40GF22.2(H)

\*40(DN40)Casing

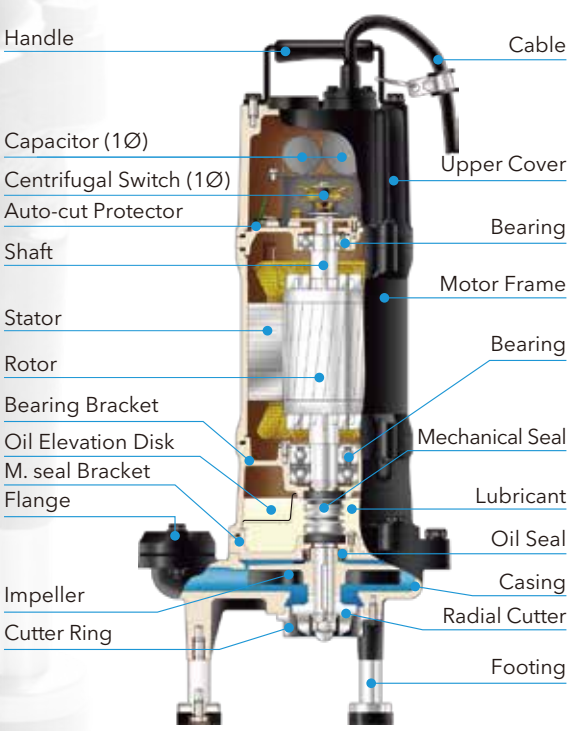


## FEATURES

- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut motor protector, double mechanical seals and oil seal design.
- Vortex impeller design prevents clogging.
- Radial cutter and cutter ring SUS440C : corrosion resistant material, hardened to 55~60 Rockwell C.
- 50GF model Triangular handle design for easy handling on Guide Rail System.
- 1Ø Centrifugal Switch and capacitor motor design provides 5 times higher torque than average capacitor starting.

## APPLICATIONS

- Used in pressure sewage system.
- Drainage of wastewater from individual residences, apartment buildings, recreational developments, motels, hotels.
- Transferring wastewater of commercial building, industrial plants.



## SPECIFICATIONS

| Item          |               | Description                                                                                       |
|---------------|---------------|---------------------------------------------------------------------------------------------------|
| Limits of Use | Liquid Temp.  | 0~40°C (32~104°F)                                                                                 |
|               | Applications  | Residential Wastewater· Sewage                                                                    |
| Type          | Frequency     | 60Hz                                                                                              |
|               | Motor         | 2P (3600rpm)· Dry Motor                                                                           |
|               | Insulation    | Class F (1.3HP~6HP)· Class H (7.5~15HP)                                                           |
|               | Protection    | IP68                                                                                              |
|               | Protector     | Auto-cut (32 / 40 / 50GF1.3~10HP)· MTS (32 / 50GF 1Ø 3~6HP)· MTS & MS (15HP)                      |
|               | Bearing       | Ball type                                                                                         |
|               | M.seal        | Double M.seals                                                                                    |
|               | Impeller      | Vortex                                                                                            |
| Material      | Upper Cover   | FC200 / ASTM-30                                                                                   |
|               | Motor Frame   | FC200 / ASTM-30                                                                                   |
|               | Shaft         | SUS403 / ASTM 403                                                                                 |
|               | M.seal        | CA/CE & SiC/SiC                                                                                   |
|               | Casing        | FC200 / ASTM-30                                                                                   |
|               | Impeller      | FC200 / ASTM-30                                                                                   |
|               | Radial Cutter | SUS440C / AISI 440C                                                                               |
|               | Cutter Ring   | SUS440C / AISI 440C                                                                               |
|               |               | Cable VCT or SJOW/SOW/SOOW                                                                        |
| Optional      |               | Pumps can be customized to fit specifications<br>Floating Switch (32GF21.0/21.5/21.5H/22.2/22.2H) |

## Extreme Grinding Ability.



⚠ The pictures are for reference only.  
The actual grinding result might be varied cause radial cutter & cutter ring condition and application environment.

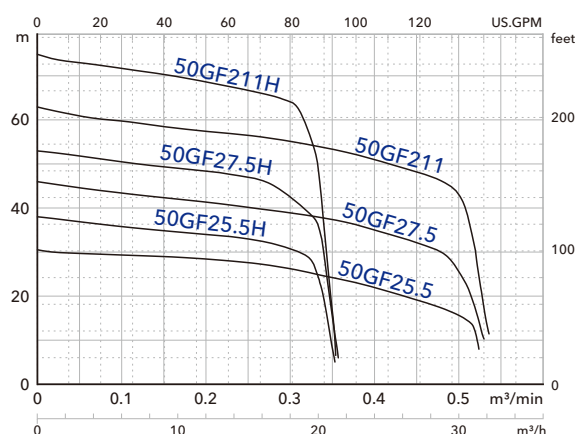
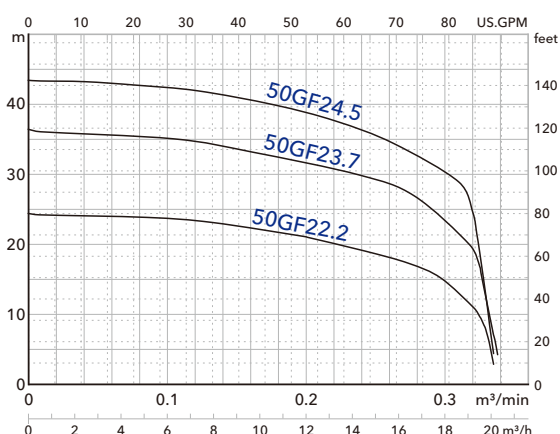
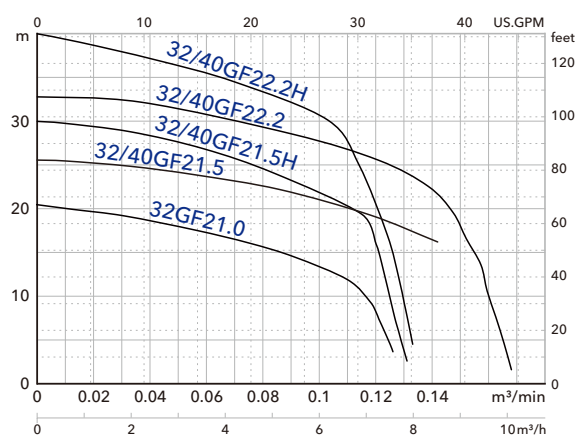


## PRODUCT NOMENCLATURE

| 32              | GF   | 2    | 1.5 | H         |
|-----------------|------|------|-----|-----------|
| Discharge<br>mm | Type | Pole | kW  | High Head |



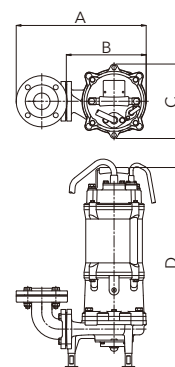
## PERFORMANCE CURVES

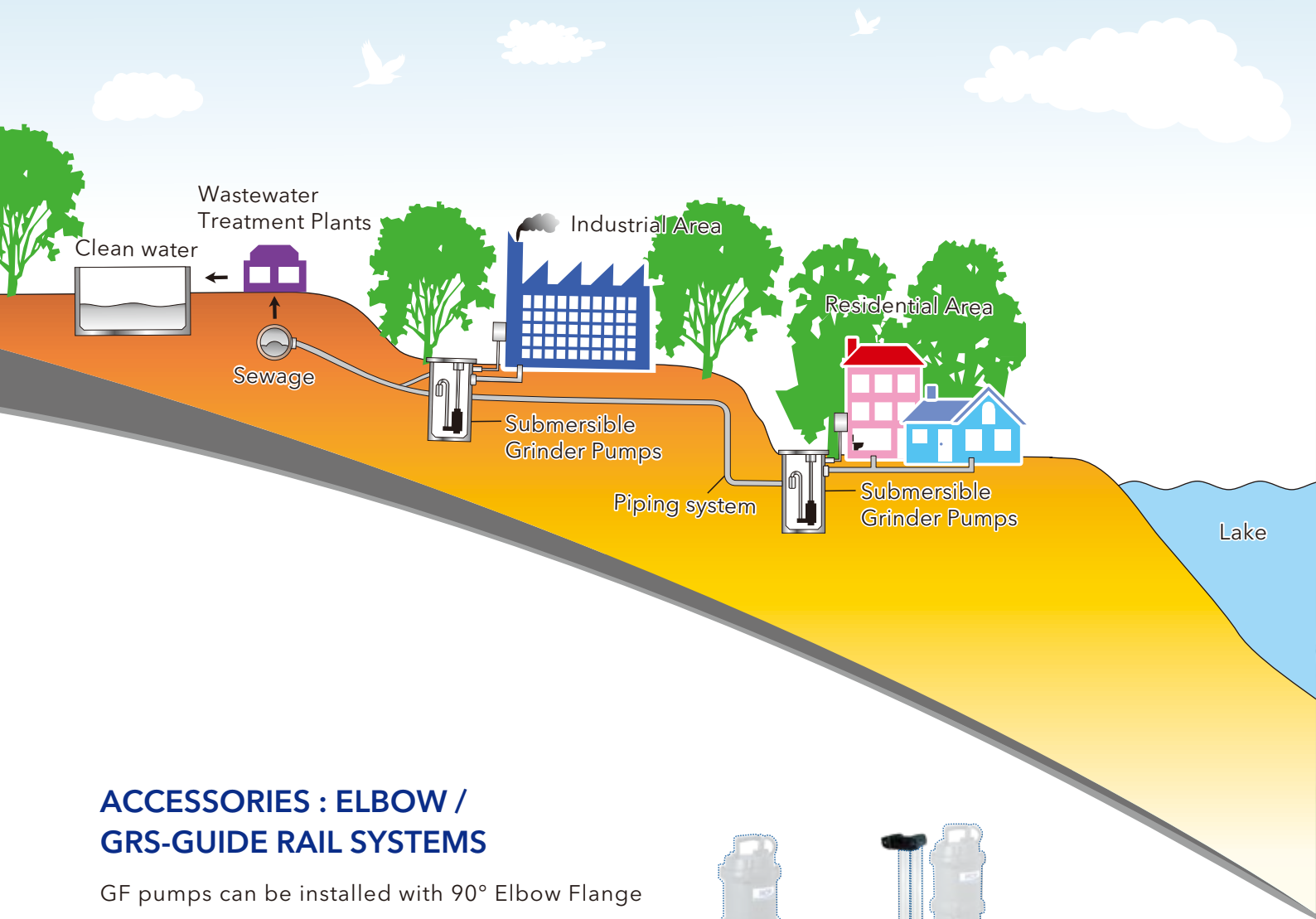


## PERFORMANCE SPECS.

※ Note : Weight Without Cable & Elbow Set.  
Start Method : Y-D = STAR-DELTA  
\*External Capacitor : Required external capacitors & start relay.

| Model     | Output<br>HP(kW) | Discharge<br>Inch(mm) | Phase<br>Ø | Start<br>Method            | Standard  |           | Weight kg(lb) |         | Dimensions mm |     |     |     |     |
|-----------|------------------|-----------------------|------------|----------------------------|-----------|-----------|---------------|---------|---------------|-----|-----|-----|-----|
|           |                  |                       |            |                            | m-m³/min  | ft-GPM    | 1Ø            | 3Ø      | A             | B   | C   | D   |     |
|           |                  |                       |            |                            |           |           |               |         |               |     |     | 1Ø  | 3Ø  |
| 32GF21.0  | 1.3(1.0)         | 11/4"(32)             | 1<br>3     | Capacitor<br>DOL           | 17-0.06   | 55.8-16   | 27(60)        | 25(55)  | 249           | -   | 177 | 555 | 530 |
| 32GF21.5  | 2(1.5)           | 11/4"(32)             | 1<br>3     | Capacitor<br>DOL           |           |           |               |         |               |     |     |     |     |
| 32GF21.5H | 2(1.5)           | 11/4"(32)             | 1<br>3     | Capacitor<br>DOL           | 26-0.06   | 85.3-16   | 36(79)        | 32(71)  | 285           | -   | 203 | 596 | 541 |
| 32GF22.2  | 3(2.2)           | 11/4"(32)             | 1<br>3     | Capacitor<br>DOL           |           |           |               |         |               |     |     |     |     |
| 32GF22.2H | 3(2.2)           | 11/4"(32)             | 1<br>3     | Capacitor<br>DOL           | 35-0.06   | 114.8-16  | 38(84)        | 35(77)  | 285           | -   | 203 | 623 | 541 |
| 40GF21.5  | 2(1.5)           | 11/2"(40)             | 1<br>3     | Capacitor<br>DOL           |           |           |               |         |               |     |     |     |     |
| 40GF21.5H | 2(1.5)           | 11/2"(40)             | 1<br>3     | Capacitor<br>DOL           | 26-0.06   | 85.3-16   | 36(79)        | 32(71)  | -             | 255 | 203 | 596 | 541 |
| 40GF22.2  | 3(2.2)           | 11/2"(40)             | 1<br>3     | Capacitor<br>DOL           |           |           |               |         |               |     |     |     |     |
| 40GF22.2H | 3(2.2)           | 11/2"(40)             | 1<br>3     | Capacitor<br>DOL           | 35-0.06   | 114.8-16  | 38(84)        | 35(77)  | -             | 255 | 203 | 623 | 541 |
| 50GF22.2  | 3(2.2)           | 2"(50)                | 1<br>3     | *External Capacitor<br>DOL |           |           |               |         |               |     |     |     |     |
| 50GF23.7  | 5(3.7)           | 2"(50)                | 1<br>3     | *External Capacitor<br>DOL | 31-0.2    | 101.7-52  | 50(110)       | 47(104) | 395           | 243 | 226 | 641 | 626 |
| 50GF24.5  | 6(4.5)           | 2"(50)                | 1<br>3     | *External Capacitor<br>DOL |           |           |               |         |               |     |     |     |     |
| 50GF24.5  | 6(4.5)           | 2"(50)                | 1<br>3     | *External Capacitor<br>DOL | 38-0.2    | 124.7-52  | 56(123)       | 50(110) | 395           | 243 | 226 | 661 | 641 |
| 50GF25.5  | 7.5(5.5)         | 2"(50)                | 3          | DOL                        |           |           |               |         |               |     |     |     |     |
| 50GF25.5H | 7.5(5.5)         | 2"(50)                | 3          | DOL                        | 21.5-0.4  | 70.5-106  | -             | 73(161) | 447           | 295 | 279 | -   | 711 |
| 50GF27.5  | 10(7.5)          | 2"(50)                | 3          | DOL                        | 32-0.25   | 105-66    | -             | 73(161) | 447           | 295 | 279 | -   | 711 |
| 50GF27.5  | 10(7.5)          | 2"(50)                | 3          | DOL                        | 34.5-0.4  | 113.2-106 | -             | 79(174) | 447           | 295 | 279 | -   | 711 |
| 50GF27.5H | 10(7.5)          | 2"(50)                | 3          | DOL                        | 45.5-0.25 | 149.3-66  | -             | 79(174) | 447           | 295 | 279 | -   | 711 |
| 50GF211   | 15(11)           | 2"(50)                | 3          | Y-D/DOL                    | 50-0.4    | 164-106   | -             | 90(198) | 462           | 310 | 279 | -   | 751 |
| 50GF211H  | 15(11)           | 2"(50)                | 3          | Y-D/DOL                    | 66.5-0.25 | 218.2-66  | -             | 90(198) | 462           | 310 | 279 | -   | 751 |





## ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

GF pumps can be installed with 90° Elbow Flange outlet or GRS guide rail system, to have easier / safer installation or removal during replacement and maintenance.



ELBOW

GRS

## PRODUCT FEATURES



### Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.



### Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



### Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



### High Efficiency Dry Motor

All stator coils are treated with insulating vanish procedures to achieve the best insulation, efficiency and durability.



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