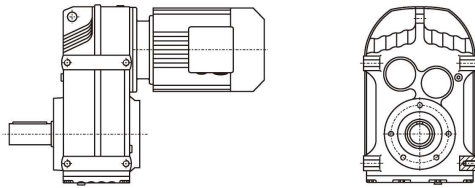


FAF Y

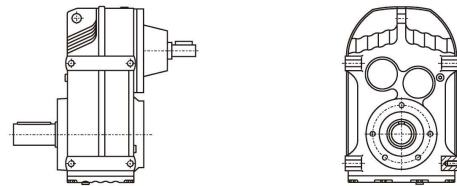
Flanged-mounted hollow shaft parallel shaft helical gear units

F series gear units are available in the following designs:



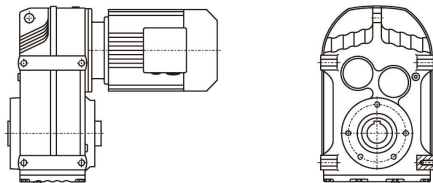
F..Y..

Foot-mounted solid shaft parallel shaft gear units



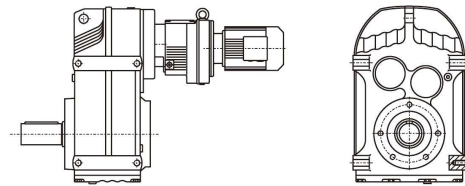
F (FF, FA, FAF, FAZ) S...

Parallel shaft helical gear units with solid shaft input



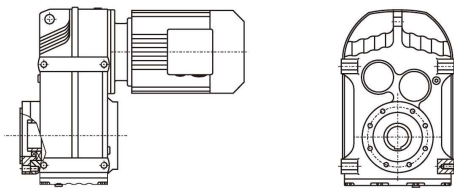
FA..Y..

Hollow shaft helical parallel shaft helical gear units



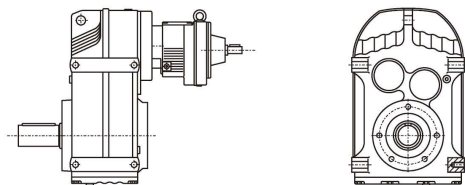
F (FF, FA, FAF, FAZ) ...R...Y...

Combi-type parallel shaft helical gear units



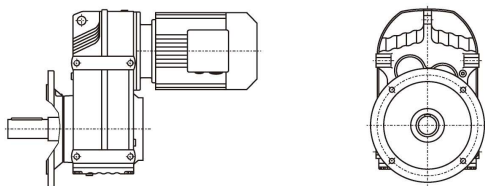
FAZ..Y..

Short-flange-mounted hollow shaft parallel shaft helical gear units



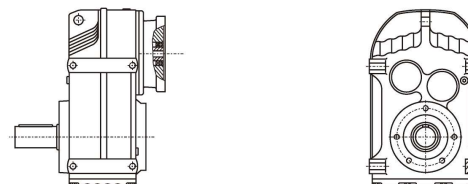
F (FF, FA, FAF, FAZ) S...R...

Combi-type parallel shaft helical gear units with solid shaft input



FF..Y..

Flange-mounted solid shaft parallel shaft helical gear units

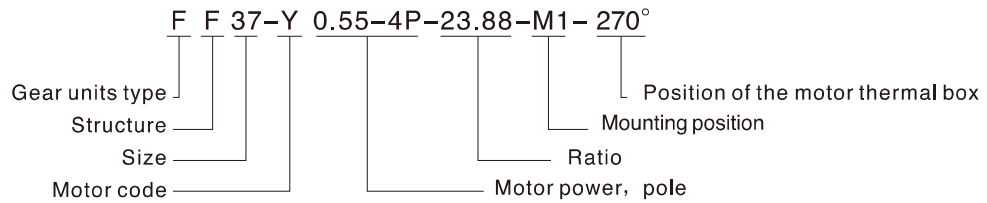


F (FF, FA, FAF, FAZ) ...Y...

Customers provide the motor by themselves need connected flange.



Type Designations:



Gear units type:
Parallel shaft helical gear units

Structure:

| | |
|--|--------------------|
| Foot-mounted solid shaft | (-) |
| Hollow shaft | A |
| Flange-mounted solid shaft | F |
| Flange-mounted hollow shaft | AF |
| Short-flange-mounted hollow shaft | AZ |
| Foot-mounted solid shaft with solid shaft input | S |
| Hollow shaft with solid shaft input | AS |
| Flange-mounted solid shaft with solid shaft input | FS |
| Flange-mounted hollow shaft with solid shaft input | AFS |
| *Hollow shaft with shrink disc | H..(H, HF, HZ, HT) |

Size:
(see selection table)

Motor code:

| | |
|--------------------------------------|-------|
| Common motor | Y(Y2) |
| Flameproof motor | B |
| Direct current motor | Z |
| Brake motor | YEJ |
| Multi-speed motor | D |
| Variable frequency motor | YVP |
| Electromagnetic variable speed motor | YCT |
| Metallurgy hoisting motor | R |
| Transduction braking motor | YVPJ |
| Roller way | G |

Motor power, pole :
See selection table

Ratio:
See selection table

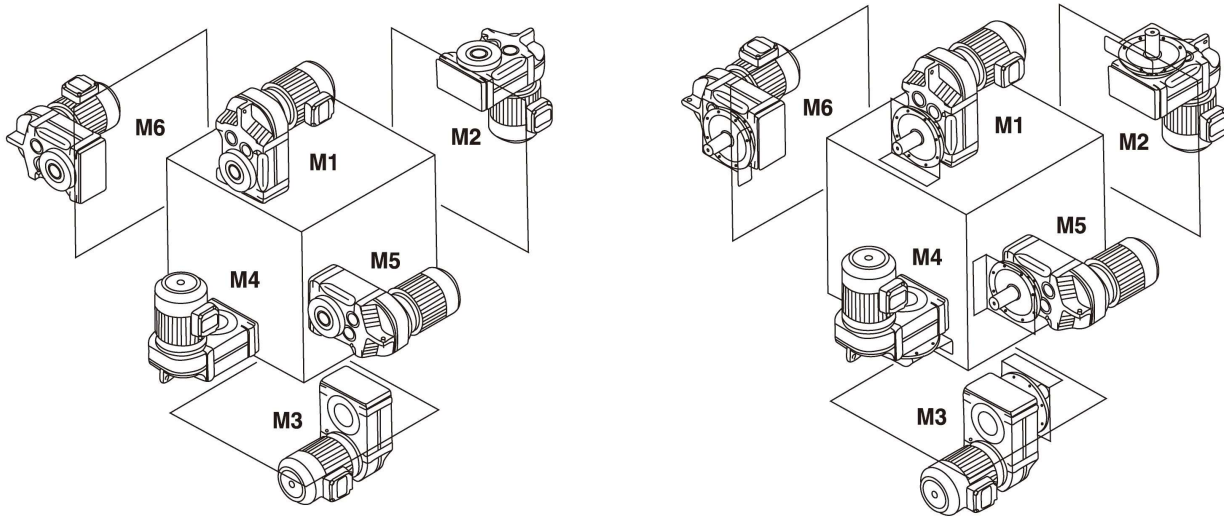
Mounting position:
M1, M2, M3, M4, M5, M6(See page 03)

Position of the motor thermal box:
0°, 90°, 180°, 270°(See page 03)

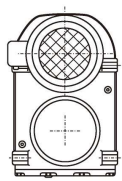
*Dimensions of hollow shaft with shrink disc, see page 34-35.



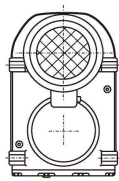
Mounting positions



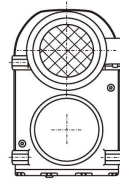
Positions of motor terminal box



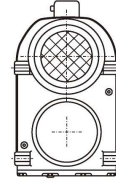
0°



90°



180°



270°

F

Input power rating and permissible torque

| Size | 37 | 47 | 57 | 67 | 77 | 87 | 97 | 107 | 127 | 157 |
|-----------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Structure | F FA FF FAF FAZ | | | | | | | | | |
| Input power rating(kw) | 0.18~3 | 0.18~3 | 0.18~5.5 | 0.18~5.5 | 0.37~11 | 0.75~22 | 1.1~30 | 2.2~45 | 7.5~90 | 11~200 |
| Ratio | 3.81~128.51 | 5.06~189.39 | 5.18~199.70 | 4.21~228.99 | 4.30~281.71 | 4.12~270.68 | 4.68~280.76 | 6.20~254.40 | 4.63~172.17 | 11.92~267.43 |
| (n·m) Permissible torque | 200 | 400 | 600 | 820 | 1500 | 3000 | 4300 | 7840 | 12000 | 18000 |

Gear unit weight

| Size | 37 | 47 | 57 | 67 | 77 | 87 | 97 | 107 | 127 | 157 |
|-----------------|----|----|----|----|----|-----|-----|-----|-----|-----|
| (kgs) Weight | 13 | 18 | 34 | 55 | 90 | 150 | 260 | 402 | 700 | 950 |

The marked weight is average value, it has no constraint force.



Oil

F...:

| Size | Oil level (L) | | | | | |
|------|---------------|------|------|------|------|-----|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| F37 | 1 | 1.2 | 0.7 | 1.2 | 1 | 1.1 |
| F47 | 1.5 | 1.8 | 1.1 | 1.9 | 1.5 | 1.7 |
| F57 | 2.6 | 3.7 | 2.1 | 3.5 | 2.8 | 2.9 |
| F67 | 2.7 | 3.8 | 1.9 | 3.8 | 2.9 | 3.2 |
| F77 | 5 | 7.3 | 4.3 | 8 | 6 | 6.3 |
| F87 | 10 | 13.0 | 7.7 | 13.8 | 10.8 | 11 |
| F97 | 18.5 | 22.5 | 12.6 | 25.2 | 18.5 | 20 |
| F107 | 24.5 | 32 | 19.5 | 37.5 | 27 | 27 |
| F127 | 40.5 | 55 | 34 | 61 | 46.5 | 47 |
| F157 | 69 | 104 | 63 | 105 | 86 | 78 |

FF...:

| Size | Oil level (L) | | | | | |
|-------|---------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| FF37 | 1 | 1.2 | 0.7 | 1.3 | 1 | 1.1 |
| FF47 | 1.6 | 1.9 | 1.1 | 1.9 | 1.5 | 1.7 |
| FF57 | 2.8 | 3.8 | 2.1 | 3.7 | 2.9 | 3 |
| FF67 | 2.7 | 3.8 | 1.9 | 3.8 | 2.9 | 3.2 |
| FF77 | 5.1 | 7.3 | 4.3 | 8.1 | 6 | 6.3 |
| FF87 | 10.3 | 13.2 | 7.8 | 14.1 | 11 | 11.2 |
| FF97 | 19 | 22.5 | 12.6 | 25.5 | 18.9 | 20.5 |
| FF107 | 25.5 | 32 | 19.5 | 38.5 | 27.5 | 28 |
| FF127 | 41.5 | 56 | 34 | 63 | 46.5 | 49 |
| FF157 | 72 | 105 | 64 | 106 | 87 | 79 |

FA..., FAF..., FAZ...:

| Size | Oil level (L) | | | | | |
|--------|---------------|------|------|------|------|------|
| | M1 | M2 | M3 | M4 | M5 | M6 |
| F..37 | 1 | 1.2 | 0.7 | 1.2 | 1 | 1.1 |
| F..47 | 1.5 | 1.8 | 1.1 | 1.9 | 1.5 | 1.7 |
| F..57 | 2.7 | 3.8 | 2.1 | 3.6 | 2.9 | 3 |
| F..67 | 2.7 | 3.8 | 1.9 | 3.8 | 2.9 | 3.2 |
| F..77 | 5 | 7.3 | 4.3 | 8 | 6 | 6.3 |
| F..87 | 10 | 13.0 | 7.7 | 13.8 | 10.8 | 11 |
| F..97 | 18.5 | 22.5 | 12.6 | 25.0 | 18.5 | 20 |
| F..107 | 24.5 | 32 | 19.5 | 37.5 | 27 | 27 |
| F..127 | 39 | 55 | 34 | 61 | 45 | 46.5 |
| F..157 | 68 | 103 | 62 | 104 | 85 | 77 |