
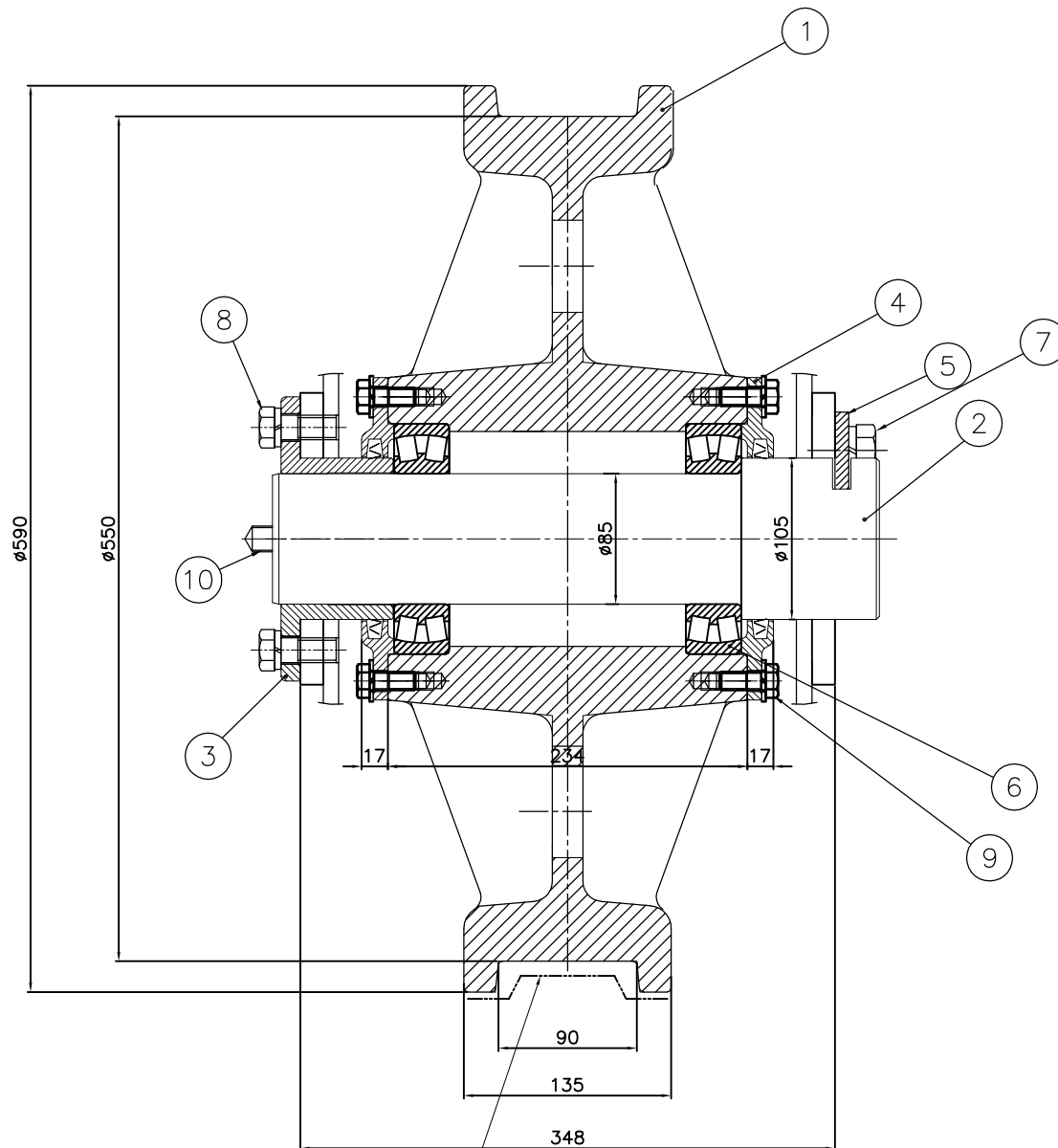



HIGH FREQUENCY HEAT TREATMENT
(高周波熱處理)
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

| | | | | | |
|----|---------------|-----------|----|--|---------------|
| 14 | BUSH | S45CN | 6 | | GFK-19-500-BU |
| 13 | BOLT.SW | 8T | 6 | | M20X80 |
| 12 | BOLT.SW | 8T | 6 | | M20X60 |
| 11 | GREASE NIPPLE | PUR-CHASE | 2 | | PT 3/8" |
| 10 | BOLT.SW | 4T | 24 | | M12x30 |
| 9 | BOLT.SW | 4T | 8 | | M16X30 |
| 8 | BOLT.SW | 4T | 4 | | M16X25 |
| 7 | BEARING | PUR-CHASE | 4 | | #22217 |
| 6 | KEY PLATE | SS400 | 2 | | GFK-19-K |
| 5 | BEARING COVER | FC20 | 4 | | GFK-19-500-BC |
| 4 | COLLAR | FCD40 | 2 | | GFK-19-500-C |
| 3 | SHAFT | S45CN | 2 | | GFK-19-500-S |
| 2 | WHEEL GEAR | SC49 | 2 | | GFK-19-500-WG |
| 1 | DRIVING WHEEL | SCMn2A | 2 | | GFK-19-550-DW |

| | | | | | | | | |
|---|------------------------|-----------|-----------|----------------|--------------|-------|---------|---------|
| 1 | ASS'Y OF DRIVING WHEEL | | 1 | | | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | | REMARKS |
| | | | QTY | WEIGHT KG | | | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE | |
| | | | | | | | 2024.01 | |
| TITLE | GFK-550φ | | | | | | SCALE | |
| | DRIVING WHEEL ASS'Y | | | | | | N/S | |
| DRAWN | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | | |
| KIM. J. H | | | KIM. M. C | | | | | |
|  | | SHEET NO. | | SHEET NO. | | | | |
| | | | | GFK-19-550-DWA | | | | |

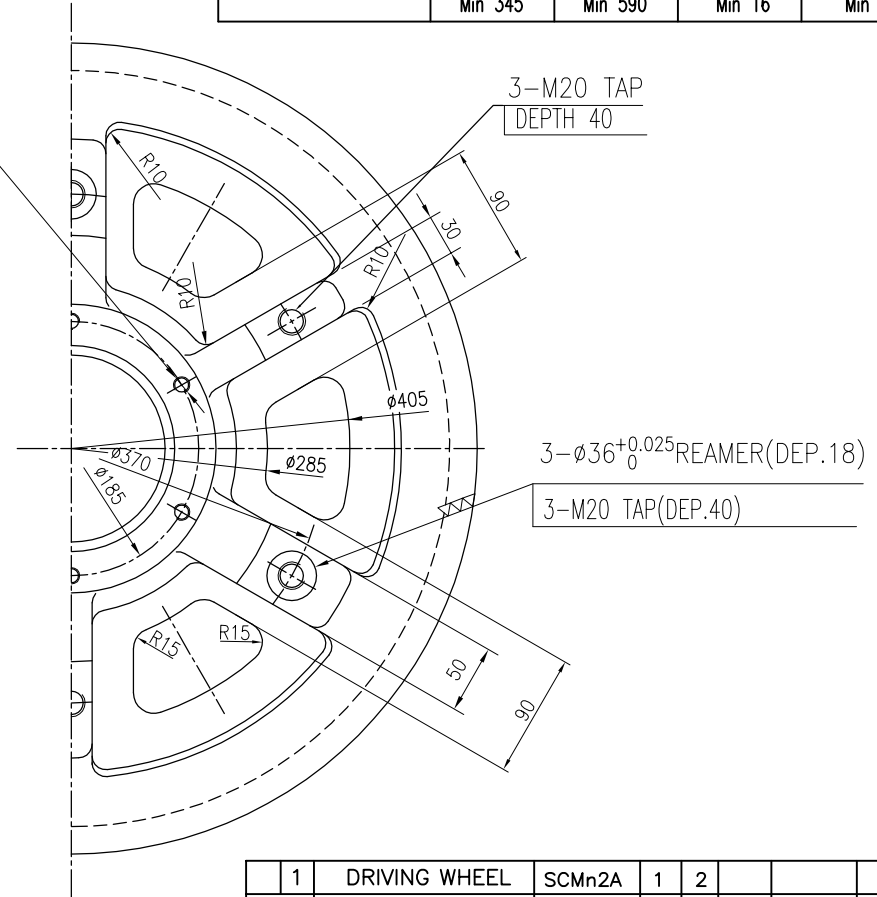
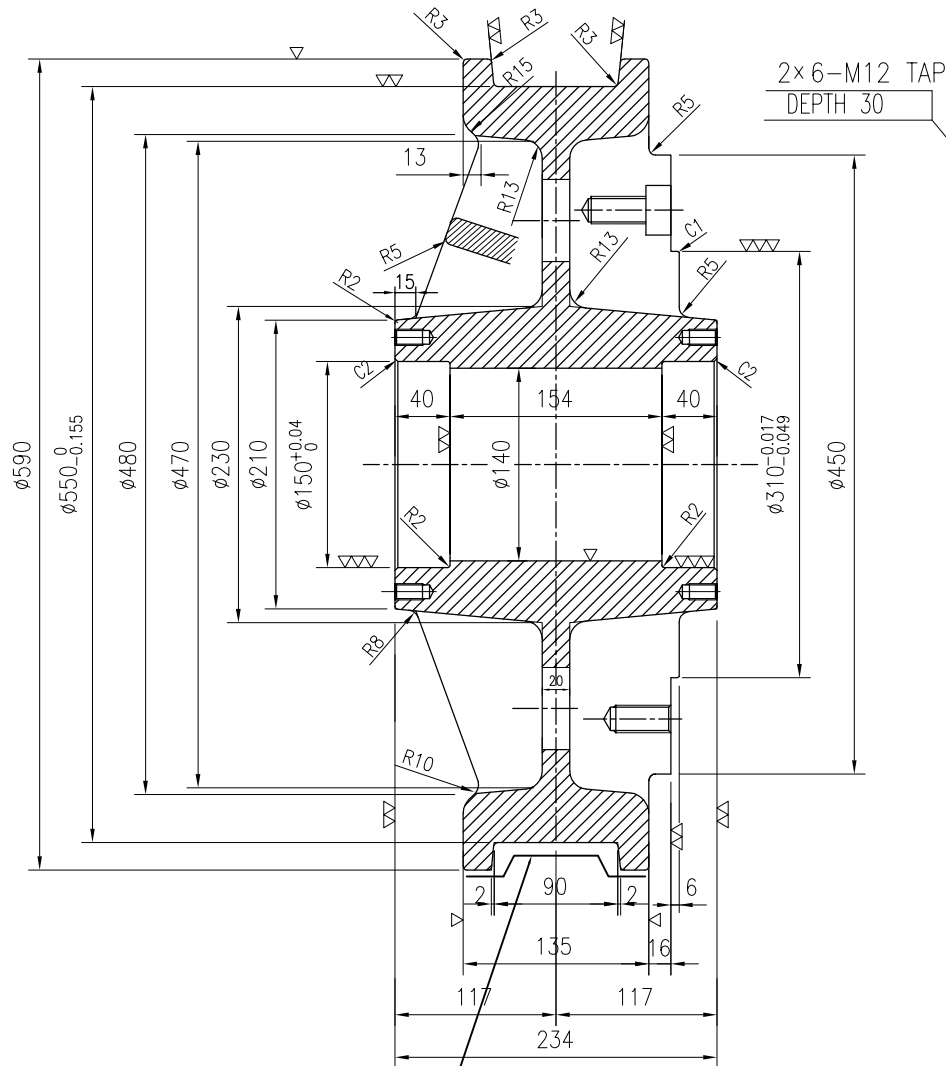


| | | | | | | |
|----|-----------------|-----------|----|--|--|---------------|
| 10 | GREASE NIPPLE | PUR-CHASE | 2 | | | PT 3/8" |
| 9 | BOLT.SW | 4T | 24 | | | M12x30 |
| 8 | BOLT.SW | 4T | 8 | | | M16x30 |
| 7 | BOLT.SW | 4T | 4 | | | M16x25 |
| 6 | BEARING | PUR-CHASE | 4 | | | #22217 |
| 5 | KEY PLATE | SS400 | 2 | | | GFK-19-K |
| 4 | BEARING COVER | FC20 | 4 | | | GFK-19-500-BC |
| 3 | COLLAR | FCD40 | 2 | | | GFK-19-500-C |
| 2 | SHAFT | S45CN | 2 | | | GFK-19-500-S |
| 1 | FOLLOWING WHEEL | SCMn2A | 2 | | | GFK-19-550-FW |


| | | | | | | | |
|---|-----------------------------------|---------|------------|----------------|-------------------|-------|---------|
| 1 | ASS'Y OF FOLLOWING WHEEL | | 1 | | | | |
| NO. | DESCRIPTIONS | MT'L | SET QTY | EA | UNIT WEIGHT KG | TOTAL | REMARKS |
| PROJECT | GIPFEL KOREA STANDARD | | | | | DATE | |
| TITLE | GFK-550φ FOLLOWING WHEEL ASS'Y | | | | | SCALE | |
| DRAWN | DESIGNED | CHECKED | APPROVED | REF DRAWING. | | | |
| KIM. J. H | | | KIM. M. C | | | | |
|  | | | SHEET NO. | SHEET NO. | | | |
| | | | | GFK-19-550-FWA | | | |

HIGH FREQUENCY HEAT TREATMENT
(高周波熱處理)
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

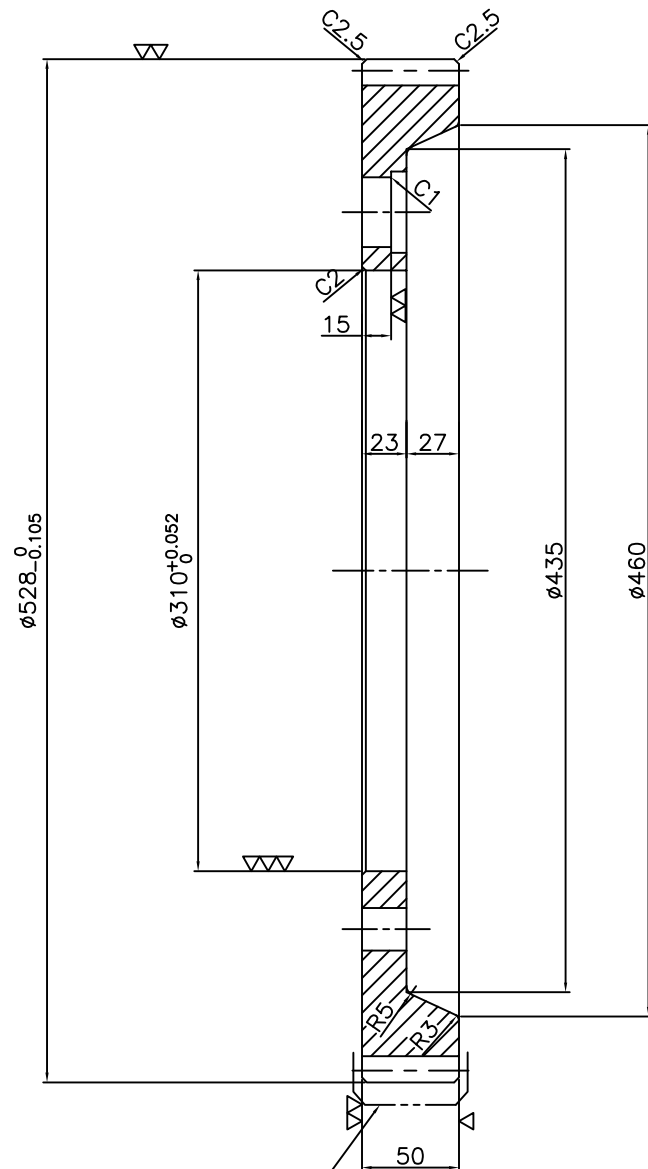
~ (▽, ▽, ▹, ▸)



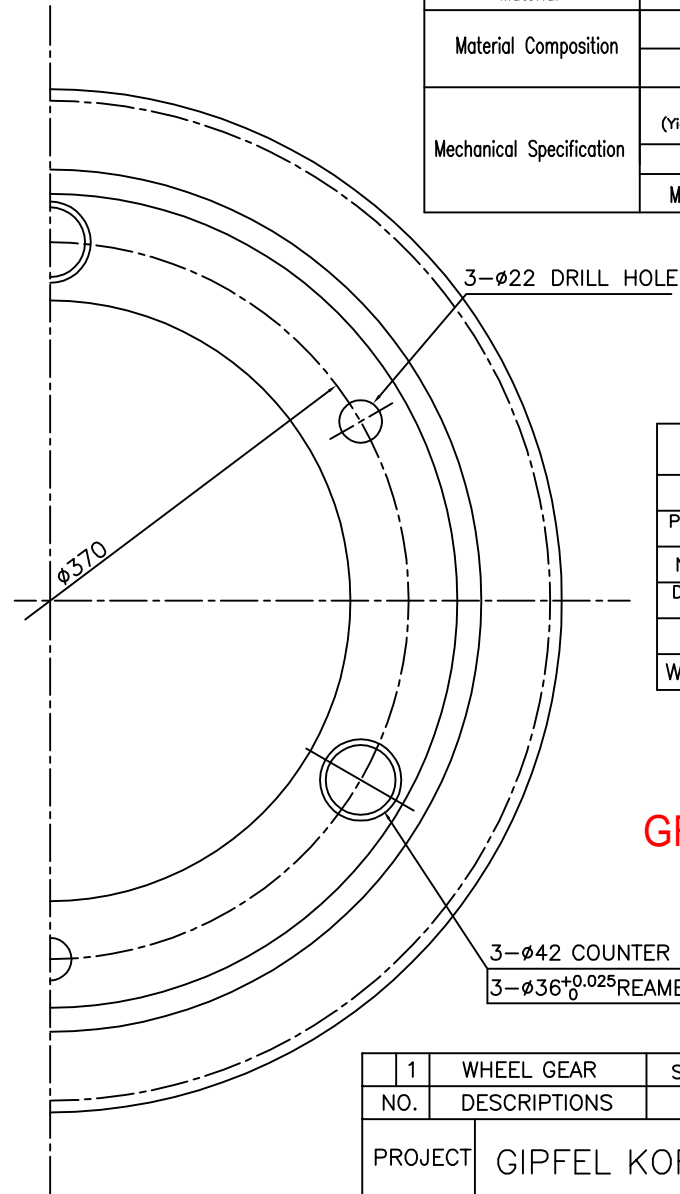
| MATERIAL SPECIFICATION | | | | | |
|--------------------------|----------------------|---------------------------|---------------------|----------------------------|----------|
| Material | JIS G 5111 SCMn2A | | | | |
| Material Composition | C | Si | Mn | P | S |
| | 0.25~0.35 | 0.30~0.60 | 1.00~1.60 | 0.040 ↓ | 0.040 ↓ |
| Mechanical Specification | Y.P (Yield point) | T.S (Tensile strength) | E.L (Elongation) | R.P (Reduction of area) | HARDNESS |
| | MPa | MPa | % | % | HB |
| | Min 345 | Min 590 | Min 16 | Min 35 | Min 163 |

| | | | | | | | | |
|---|---------------------------|---------------|-----------|---------------|--------------|-------|---------|--|
| | 1 | DRIVING WHEEL | SCMn2A | 1 | 2 | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | REMARKS | |
| | | | QTY | | WEIGHT KG | | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE | |
| | | | | | | | 2024.01 | |
| TITLE | GFK-550ø DRIVING WHEEL | | | | | | SCALE | |
| | | | | | | | 1:1 | |
| DRAWN | | DESIGNED | CHECKED | APPROVED | REF DRAWING. | | | |
| KIM.J.H | | | | KIM.M.C | | | | |
|  | | | SHEET NO. | SHEET NO. | | | | |
| | | | | GFK-19-550-DW | | | | |

~(▽,▽▽,▽▽▽)



GEAR TEETH HIGH FREQUENCY
HEAT TREATMENT(高周波熱處理)
HARDNESS : HS 55~65




MATERIAL SPECIFICATION

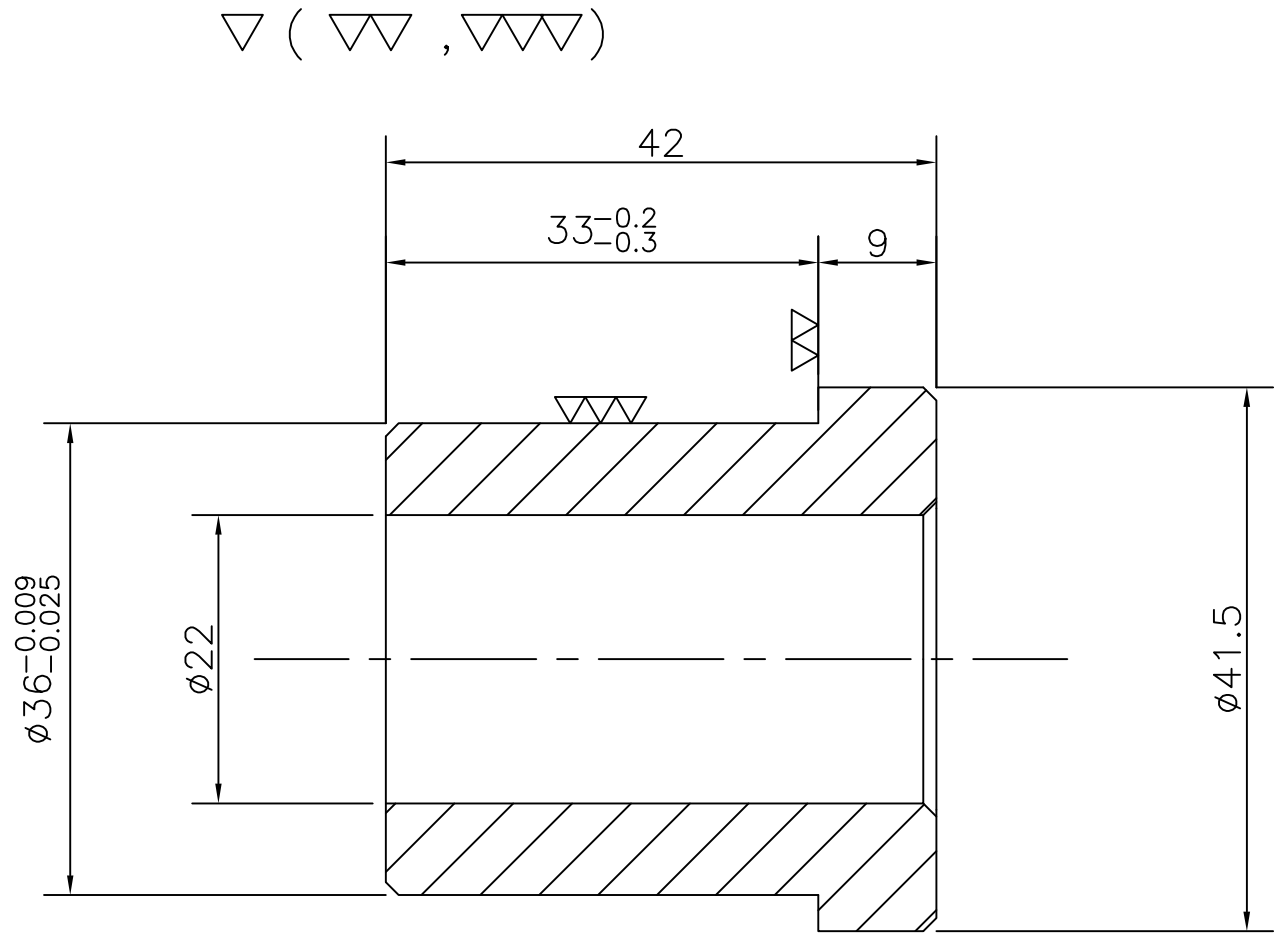
| Material | JIS G 5101 SC49(SC480) | | | |
|--------------------------|------------------------|---------------------------|---------------------|----------------------------|
| Material Composition | C | P | S | |
| | 0.4 | 0.040 | 0.040 | |
| Mechanical Specification | Y.P (Yield point) | T.S (Tensile strength) | E.L (Elongation) | R.P (Reduction of area) |
| | MPa | MPa | % | % |
| | Min 245 | Min 480 | Min 17 | Min 25 |


GEAR SPECIFICATION

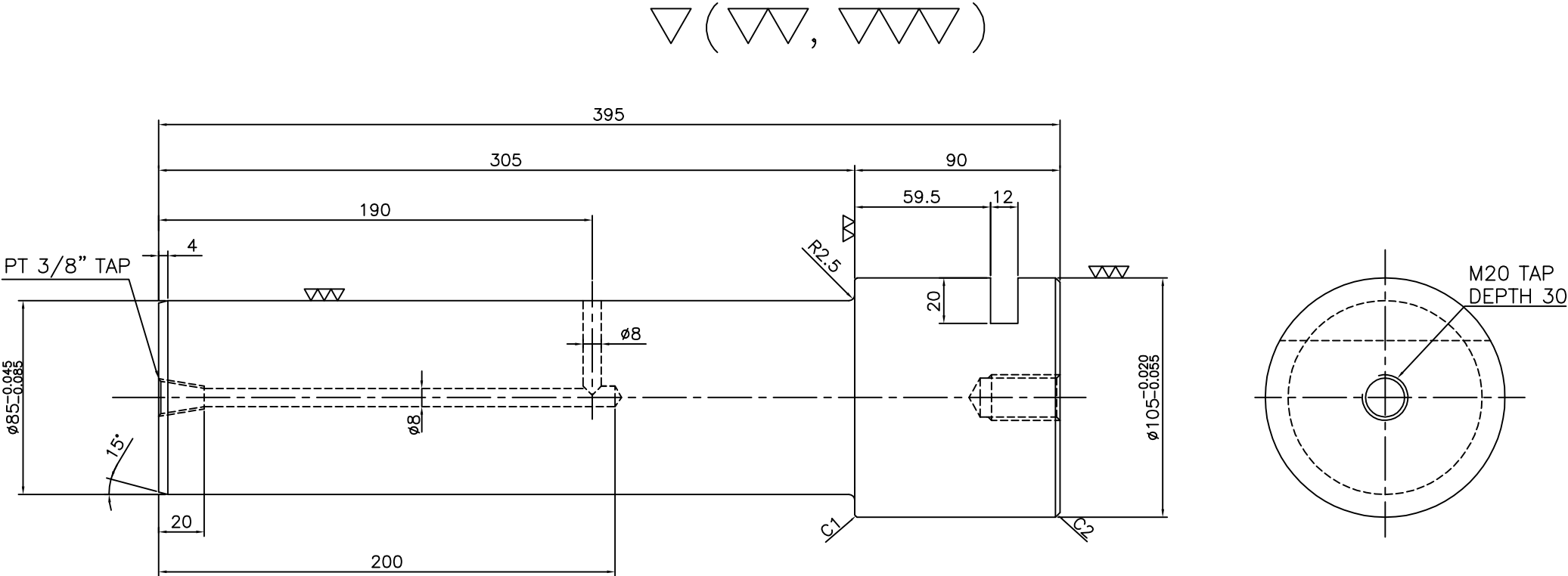
| MODULE | 6 | 8 |
|---------------------|------------------------------|-----------------------------|
| PRESSURE ANGLE | 20° | |
| NO.OF TEETH | 86 ^T | 64 ^T |
| D.O.G.N OF TEETH | 10 ^T)175.50-8.18 | 8 ^T)184.30-8.18 |
| P.C.D | $\phi 516$ | $\phi 512$ |
| WHEEL SIZE | $\phi 500$ | $\phi 500S$ |


GFK-500, GFK-550 겸용

| | | | | | | | | |
|---|------------------------|------------|-----------|-----------|---------------|--------------|---------|---------|
| | 1 | WHEEL GEAR | SC49 | 1 | 2 | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | | REMARKS |
| | | | QTY | | WEIGHT KG | | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE | |
| | | | | | | | 2024.01 | |
| TITLE | GFK-500ø WHEEL GEAR | | | | | | SCALE | |
| | | | | | | | 1:1 | |
| DRAWN | | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | | KIM. M. C | | | | |
|  | | | SHEET NO. | | SHEET NO. | | | |
| | | | | | GFK-19-500-WG | | | |



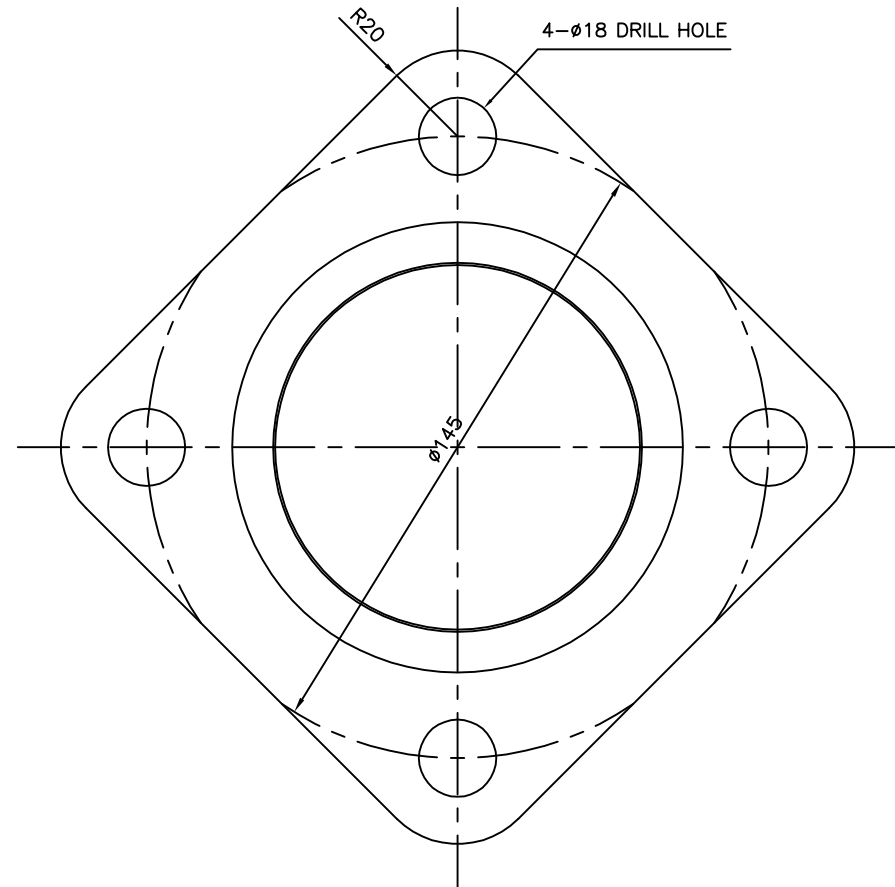
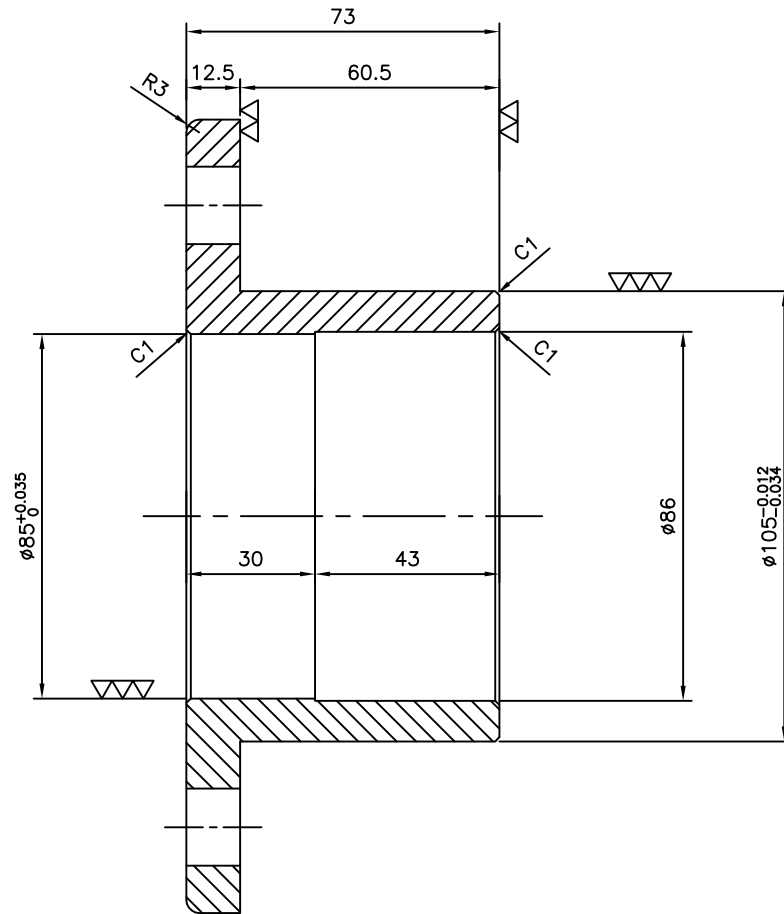
| | | | | | | | |
|---|-----------------------|---------|-----------|---------------|-----------|-------|--------------|
| 1 | BUSH | S45C | 1 | 6 | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | REMARKS |
| | | | QTY | | WEIGHT KG | | DATE |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | 2024.01 |
| TITLE | GFK-500ø BUSH | | | | | | SCALE 1:1 |
| DRAWN | DESIGNED | CHECKED | APPROVED | REF DRAWING. | | | |
| KIM. J. H | | | KIM. M. C | | | | |
|  | | | SHEET NO. | SHEET NO. | | | |
| | | | | GFK-19-500-BU | | | |




| | | | | | | | |
|---|-----------------------|-----------|--------------|-----------|--------------|-------|---------|
| 1 | SHAFT | S45CN | 1 | 4 | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | REMARKS |
| | | | QTY | WEIGHT KG | | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE |
| | | | | | | | 2024.01 |
| TITLE | GFK-500ø | | | | | | SCALE |
| | SHAFT | | | | | | 1:1 |
| DRAWN | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | KIM. M. C | | | | |
|  | | SHEET NO. | SHEET NO. | | | | |
| | | | GFK-19-500-S | | | | |

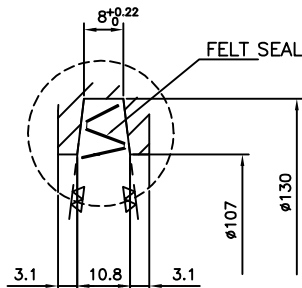
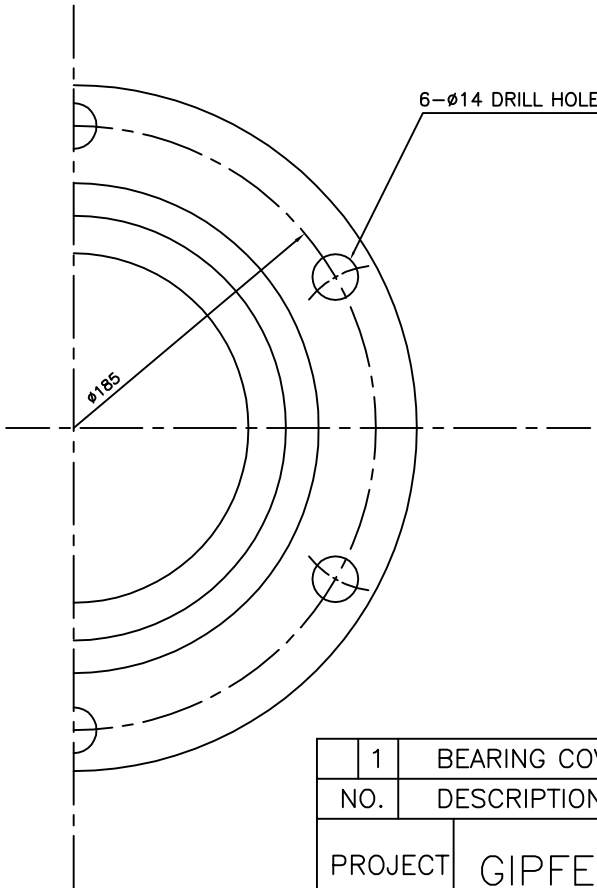
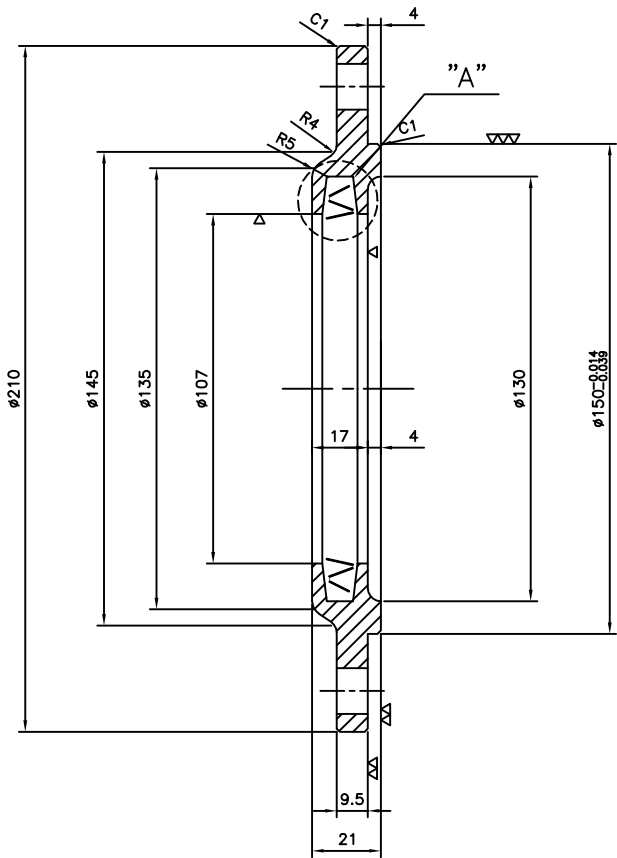
~ (▽, ▽, ▿)

GFK-500, GFK-550 겸용




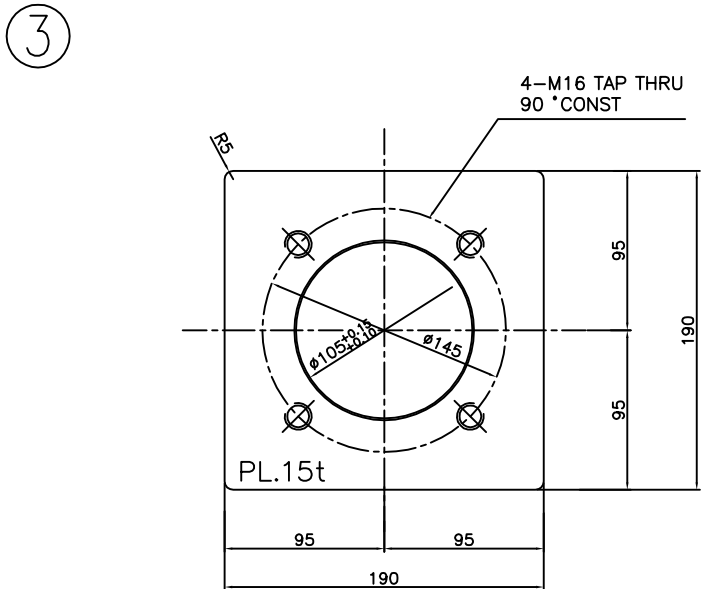
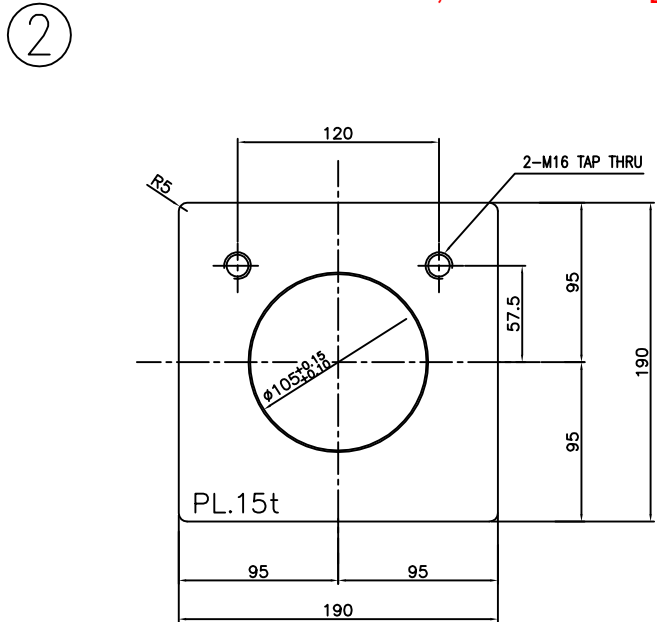
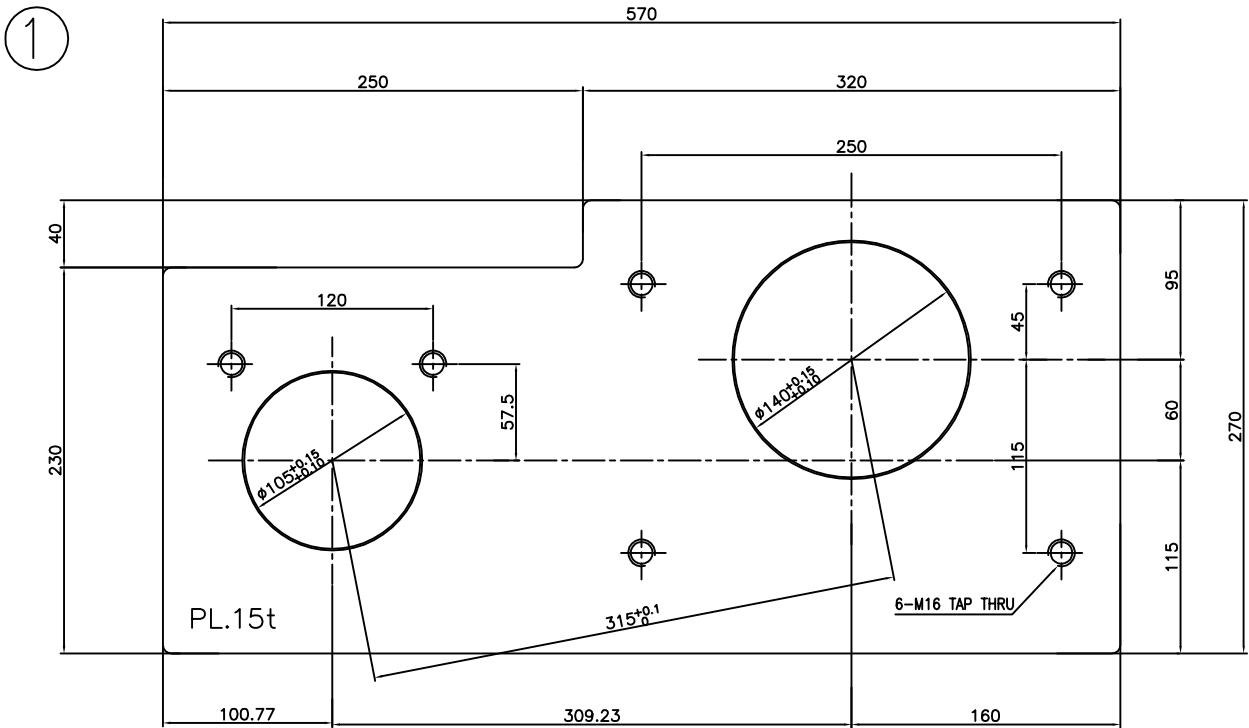
| | | | | | | | | |
|---|-----------------------|----------|-----------|-----------|--------------|--------------|-----------------|---------|
| | 1 | COLLAR | FCD40 | 1 | 4 | | | |
| NO. | DESCRIPTIONS | | MT'L | SET | EA | UNIT | TOTAL | REMARKS |
| | | | | QTY | | WEIGHT KG | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE 2024.01 | |
| TITLE | GFK-500ø | | | | | | SCALE | |
| | COLLAR | | | | | | 1:1 | |
| DRAWN | | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | | KIM. M. C | | | | |
|  | | | SHEET NO. | | SHEET NO. | | | |
| | | | | | GFK-19-500-C | | | |

~ (▽, ▽, ▹, ▸)




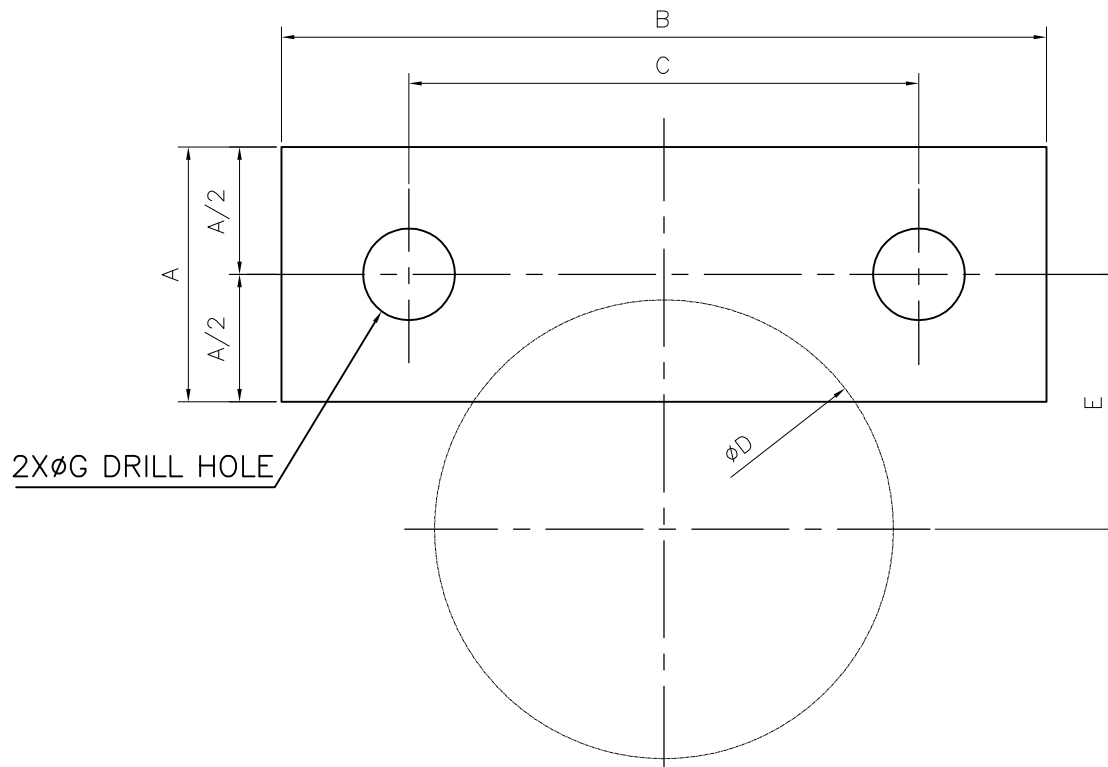
DETAIL "A"
SCALE=N/S

| | | | | | | | | |
|---|---------------------------|----------|-----------|--------------------------------|------|--------------|---------|---------|
| 1 | BEARING COVER | | FC20 | 1 | 8 | | | |
| NO. | DESCRIPTONS | MT'L | SET | EA | UNIT | TOTAL | | REMARKS |
| | | | QTY | WEIGHT KG | | | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE | |
| | | | | | | | 2024.01 | |
| TITLE | GFK-500ø BEARING COVER | | | | | | SCALE | |
| | | | | | | | 1:1 | |
| DRAWN | | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | | KIM. M. C | | | | |
|  | | | SHEET NO. | SHEET NO. GFK-19-500-BC | | | | |
| | | | | | | | | |

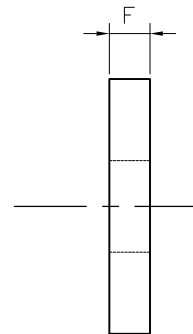



NOTE
BREAK ALL SHARP EDGES OF HOLE C1

| | | | | | | | | |
|---|--------------|-----------------------|-----------|--------------|----|--------------|--------------------|---------|
| | 3 | COLLAR PLATE | SS400 | | 4 | | | 15t |
| | 2 | SHAFT PLATE | SS400 | | 2 | | | 15t |
| | 1 | MOTOR PLATE | SS400 | | 2 | | | 15t |
| 1 | | PLATE | | 1 | | | | |
| NO. | DESCRIPTIONS | | MT'L | SET QTY | EA | UNIT | TOTAL WEIGHT KG | REMARKS |
| PROJECT | | GIPFEL KOREA STANDARD | | | | | | DATE |
| | | | | | | | | 2024.01 |
| TITLE | | GFK-500ø PLATE | | | | | | SCALE |
| | | | | | | | | 1:1 |
| DRAWN | | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | | KIM. M. C | | | | |
|  | | | SHEET NO. | SHEET NO. | | | | |
| | | | | GFK-19-500-P | | | | |



| WHEEL \ NOTATION | A | B | C | D | E | F | G |
|------------------|----|-----|-----|-----|------|----|----|
| Ø160 | 38 | 120 | 80 | 60 | 35 | 9 | 14 |
| Ø200 | 38 | 120 | 80 | 70 | 40 | 9 | 14 |
| Ø250 | 38 | 120 | 80 | 75 | 42.5 | 9 | 14 |
| Ø315, Ø350 | 50 | 150 | 100 | 80 | 45 | 9 | 14 |
| Ø400, Ø450 | 50 | 150 | 100 | 90 | 50 | 9 | 18 |
| Ø500, Ø550 | 50 | 170 | 120 | 105 | 57.5 | 9 | 18 |
| Ø630 | 50 | 170 | 120 | 120 | 65 | 9 | 18 |
| Ø710 | 50 | 210 | 150 | 130 | 67.5 | 12 | 18 |
| Ø800 | 55 | 210 | 150 | 135 | 72.5 | 12 | 24 |



| | | | | | | | |
|---|-----------------------|-----------|-----------|----|--------------|-------|---------|
| 1 | KEY PLATE | SS400 | 1 | 4 | | | |
| NO. | DESCRIPTIONS | MT'L | SET | EA | UNIT | TOTAL | REMARKS |
| | | | QTY | | WEIGHT KG | | |
| PROJECT | GIPFEL KOREA STANDARD | | | | | | DATE |
| | | | | | | | 2019.10 |
| TITLE | GFK KEY PLATE | | | | | | SCALE |
| | | | | | | | N/S |
| DRAWN | DESIGNED | CHECKED | APPROVED | | REF DRAWING. | | |
| KIM. J. H | | | KIM. M. C | | | | |
|  | | SHEET NO. | SHEET NO. | | | | |
| | | | GFK-19-K | | | | |