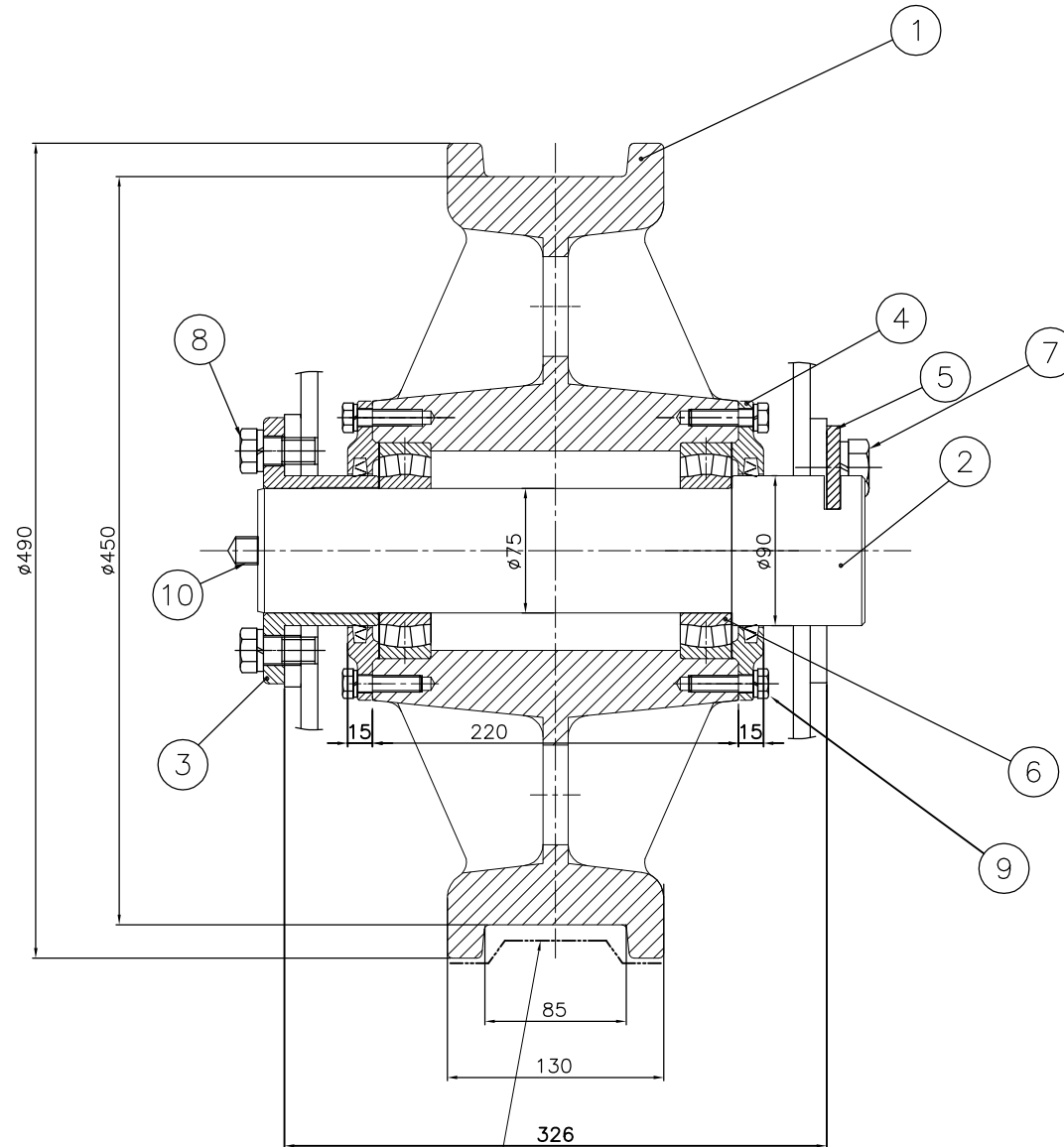



HIGH FREQUENCY HEAT TREATMENT
(高周波熱處理)
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55


14	BUSH	S45CN	6			GFK-19-400-BU
13	BOLT.SW	8T	6			M16X75
12	BOLT.SW	8T	6			M16X50
11	GREASE NIPPLE	PUR-CHASE	2			PT 3/8"
10	BOLT.SW	4T	24			M10x30
9	BOLT.SW	4T	8			M16X30
8	BOLT.SW	4T	4			M16X25
7	BEARING	PUR-CHASE	4			#22215
6	KEY PLATE	SS400	2			GFK-19-K
5	BEARING COVER	FC20	4			GFK-19-400-BC
4	COLLAR	FCD40	2			GFK-19-400-C
3	SHAFT	S45CN	2			GFK-19-400-S
2	WHEEL GEAR	SC49	2			GFK-19-450-WG
1	DRIVING WHEEL	SCMn2A	2			GFK-19-450-DW
1	ASS'Y OF DRIVING WHEEL		1			
NO.	DESCRIPTIONS	MT'L	SET QTY	EA UNIT	TOTAL WEIGHT KG	REMARKS
PROJECT	GIPFEL KOREA STANDARD					DATE
TITLE	GFK-450ø DRIVING WHEEL ASS'Y					2024.01
						SCALE
						N/S
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.		
KIM. J. H			KIM. M. C			
			SHEET NO.	SHEET NO.	GFK-19-450-DWA	



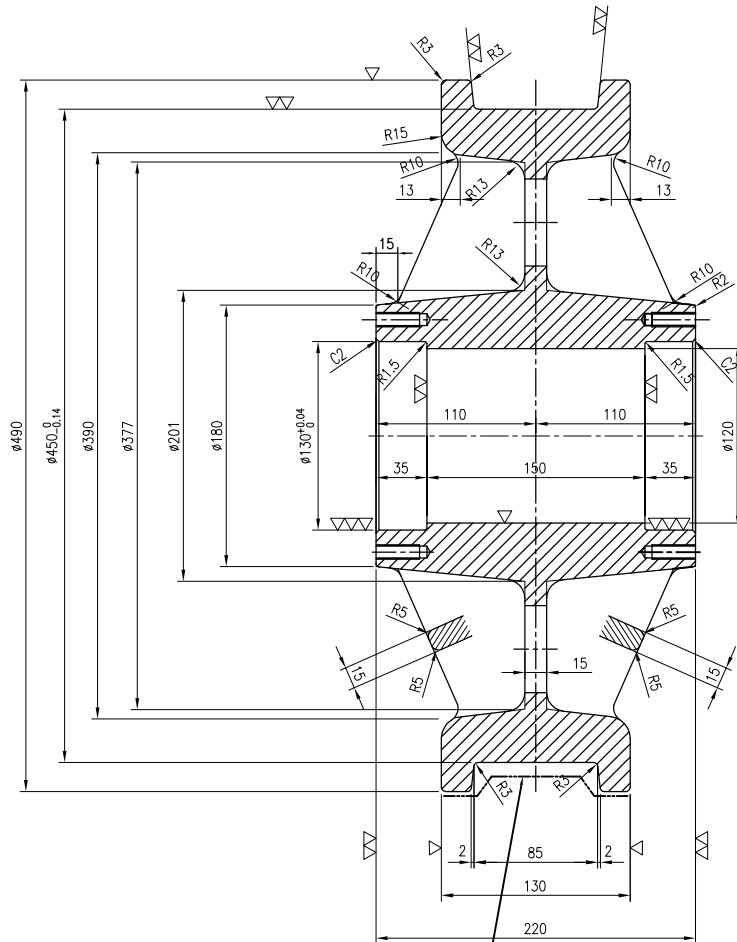
HIGH FREQUENCY HEAT TREATMENT
(高周波熱處理)
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

10	GREASE NIPPLE	PUR-CHASE	2				PT 3/8"
9	BOLT.SW	4T	24				M10x30
8	BOLT.SW	4T	8				M16X30
7	BOLT.SW	4T	4				M16X25
6	BEARING	PUR-CHASE	4				#22215
5	KEY PLATE	SS400	2				GFK-19-K
4	BEARING COVER	FC20	4				GFK-19-400-BC
3	COLLAR	FCD40	2				GFK-19-400-C
2	SHAFT	S45CN	2				GFK-19-400-S
1	FOLLOWING WHEEL	SCMn2A	2				GFK-19-450-FW
1	ASS'Y OF FOLLOWING WHEEL		1				
NO.	DESCRIPTIONS	MT'L	SET QTY	EA	UNIT	TOTAL WEIGHT KG	REMARKS
PROJECT	GIPFEL KOREA STANDARD						DATE
							2024.01
TITLE	GFK-450φ FOLLOWING WHEEL ASS'Y						SCALE
							N/S
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.			
KIM. J. H			KIM. M. C				
			SHEET NO.	SHEET NO.			
				GFK-19-450-FWA			

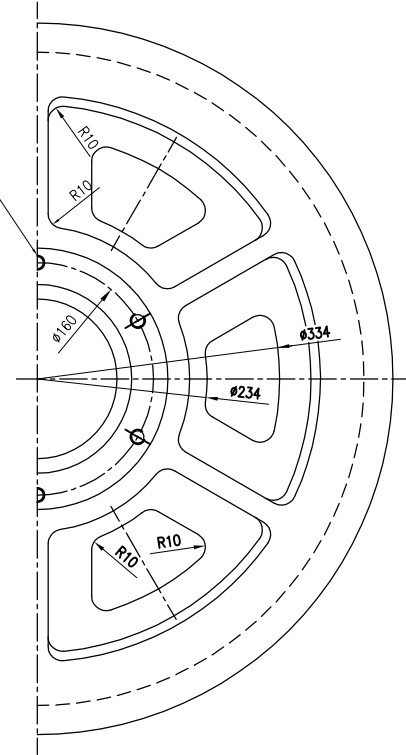
[illegible][illegible]

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-450ø					SCALE	
	DRIVING WHEEL					1:1	
DRAWN	DESIGNED	CHECKED	APPROVED		REF DRAWING.		
KIM. J. H			KIM. M. C				
		SHEET NO.	SHEET NO.				
			GFK-19-450-DW				

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2×6-M10 TAP
DEP 25



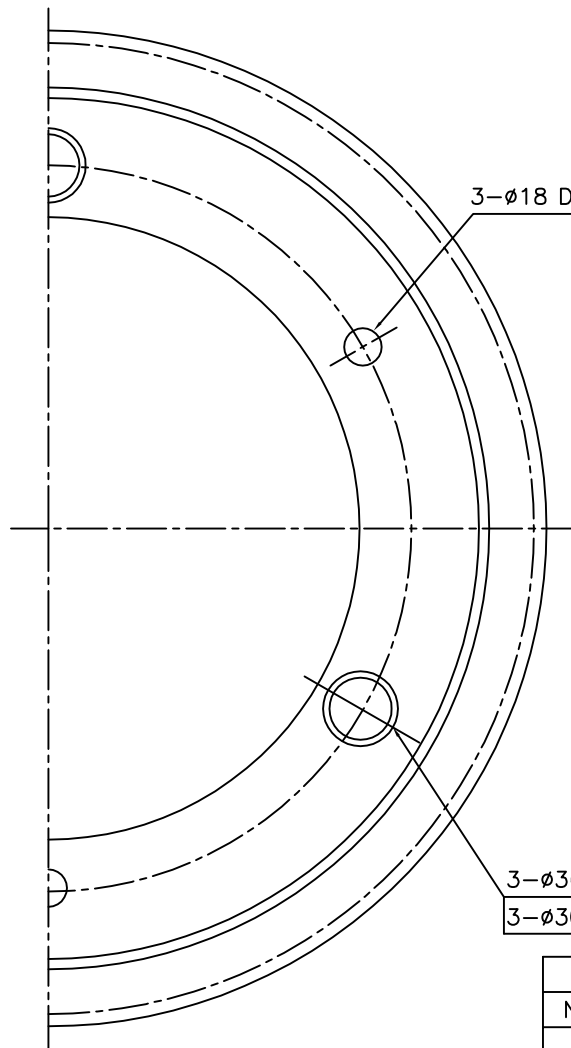
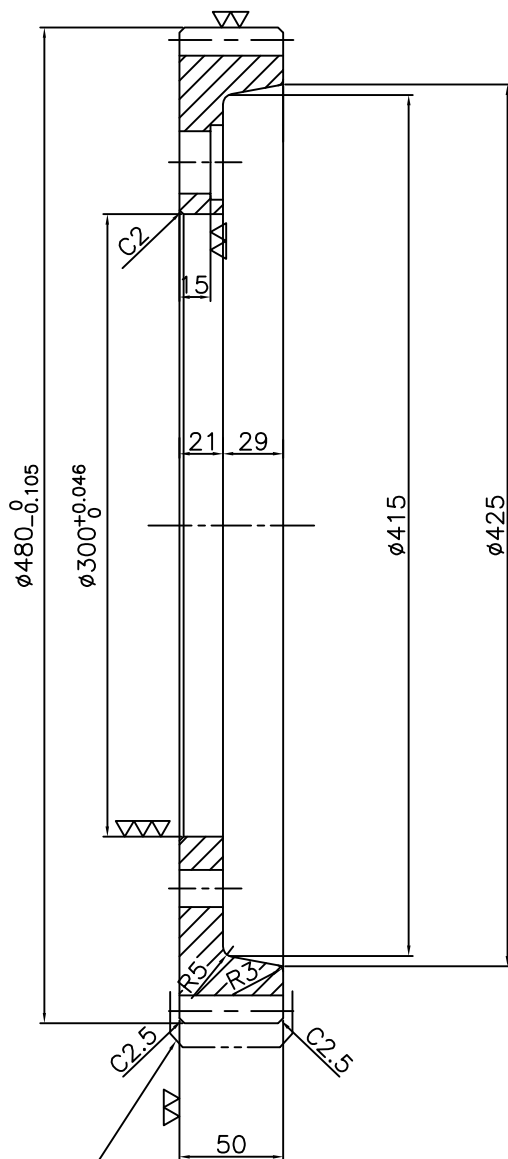
HIGH FREQUENCY HEAT TREATMENT
(高周波熱處理)
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

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		FOLLOWING 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-450ø FOLLOWING WHEEL										SCALE			
												1:1			
DRAWN		DESIGNED		CHECKED		APPROVED		REF DRAWING.							
KIM. J. H						KIM. M. C									
				SHEET NO.		SHEET NO. GFK-19-450-FW									


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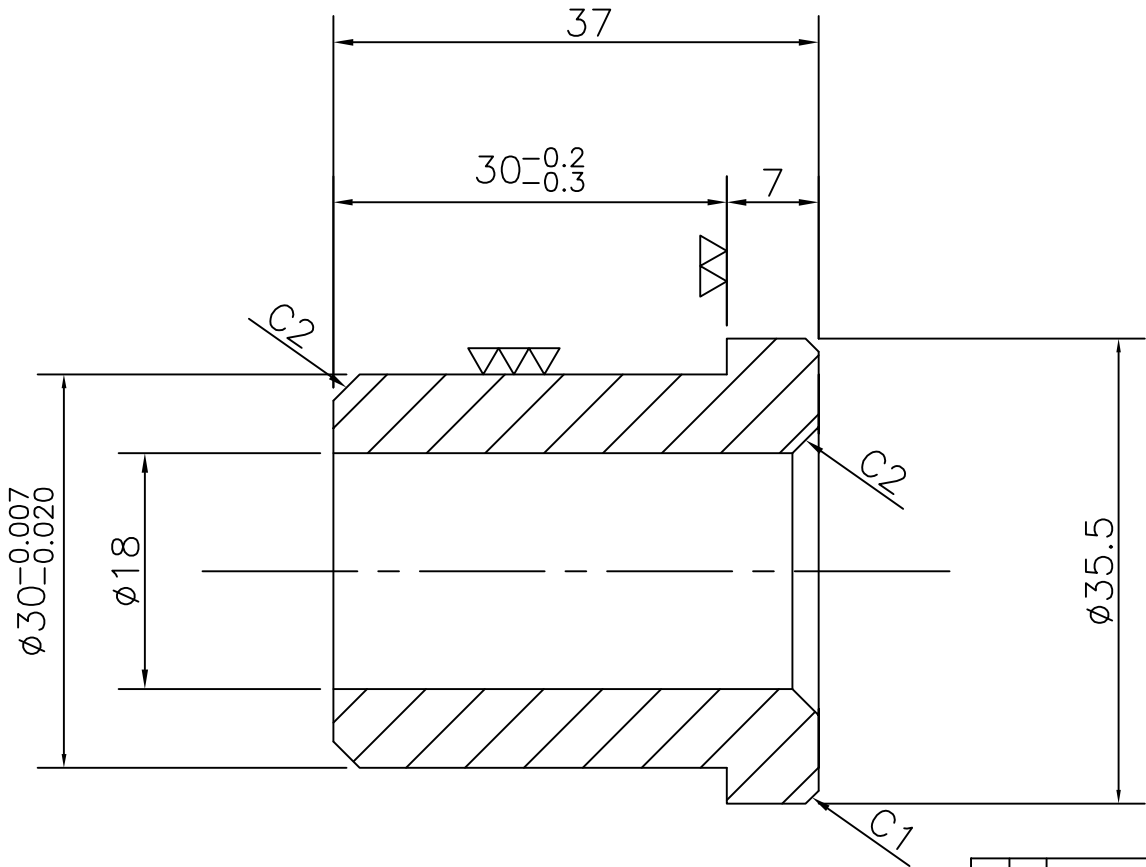
MATERIAL SPECIFICATION				
Material	JIS G 5101 SC49(SC480)			
Material Composition	C	P	S	
	0.4	0.040	0.040	
Mechanical Specification	Y.P (Yield point)	T.S (Tensile strength)	E.L (Elongation)	R.P (Reduction of area)
	MPa	MPa	%	%
	Min 245	Min 480	Min 17	Min 25


GEAR SPECIFICATION	
MODULE	6
PRESSURE ANGLE	20°
NO.OF TEETH	78 ^T
D.O.G.N OF TEETH	9 ^T)157.11 $\begin{smallmatrix} -0.12 \\ -0.45 \end{smallmatrix}$
P.C.D	$\phi 468$
WHEEL SIZE	$\phi 450$

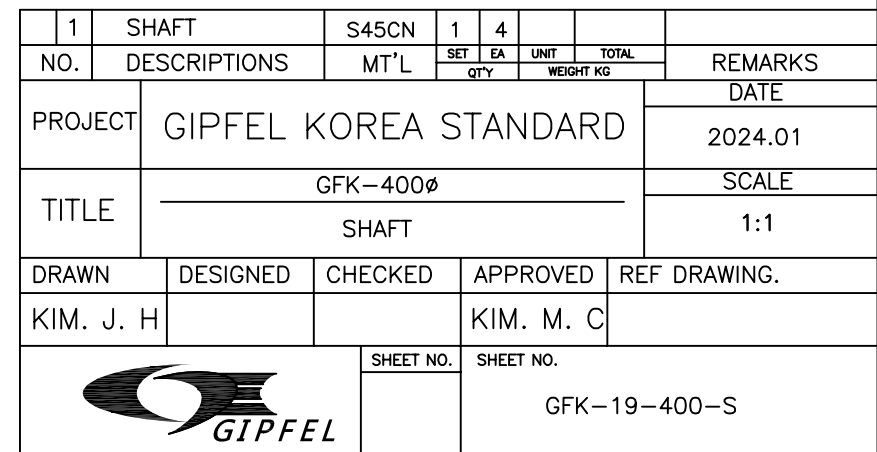
GEAR TEETH HIGH FREQUENCY
HEAT TREATMENT(高周波熱處理)
HARDNESS : HS 55~65

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-450ø WHEEL GEAR										SCALE			
												1:1			
DRAWN		DESIGNED		CHECKED		APPROVED		REF DRAWING.							
KIM. J. H						KIM. M. C									
				SHEET NO.		SHEET NO.									
						GFK-19-450-WG									

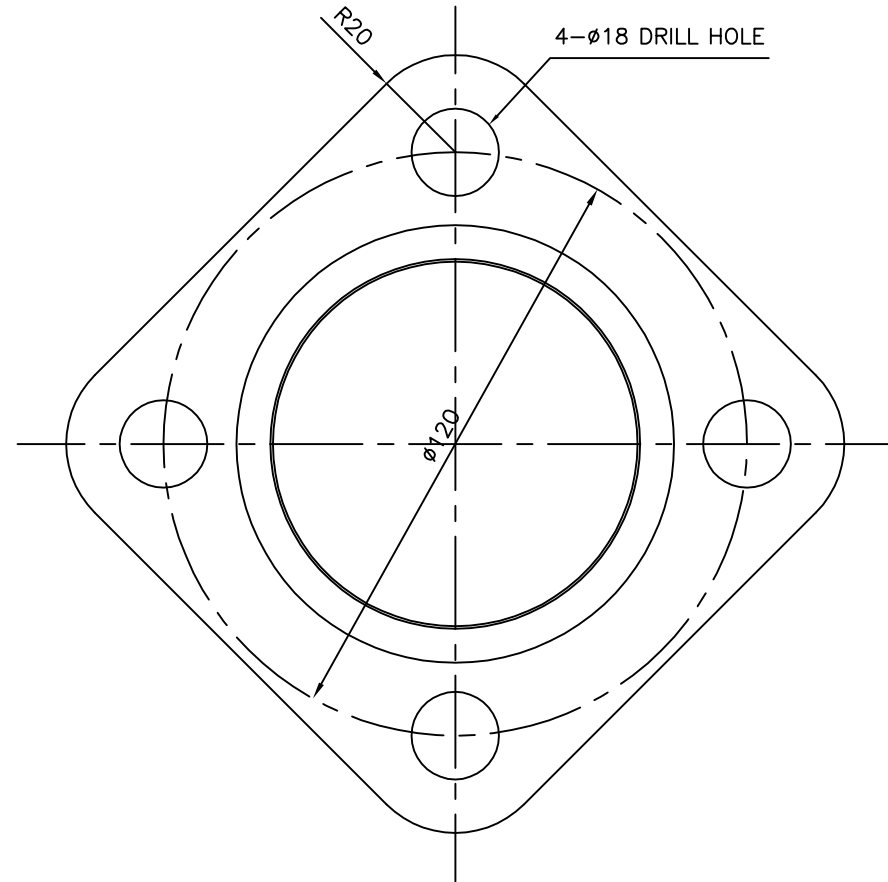
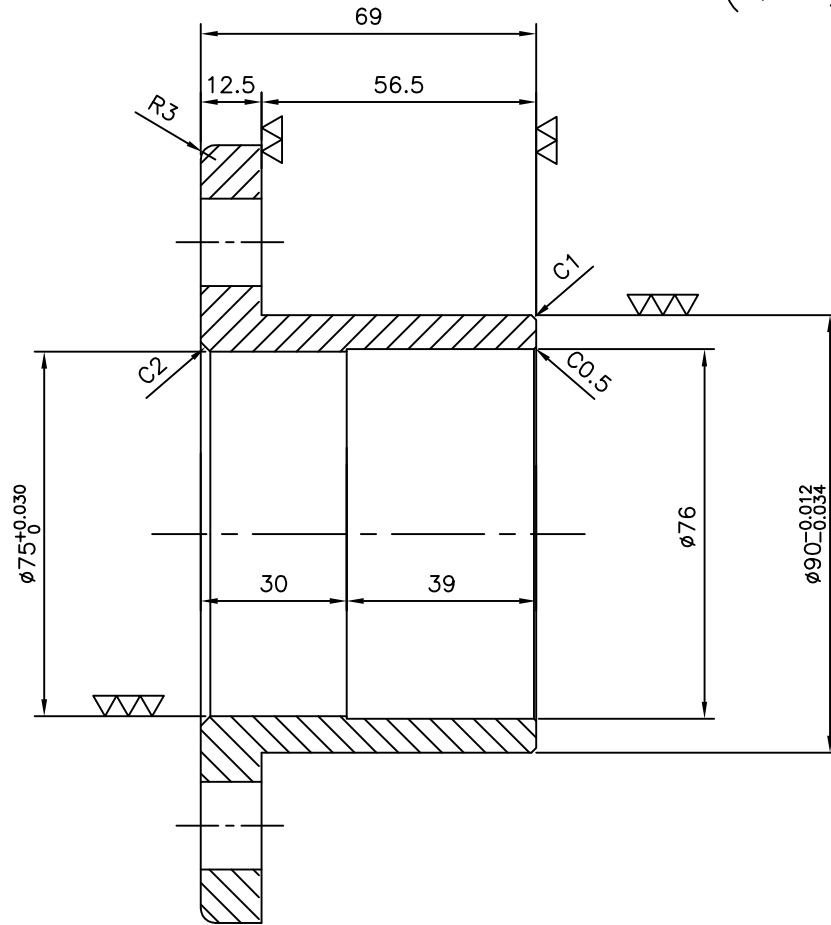
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1	BUSH	S45C	1	6			
NO.	DESCRIPTIONS	MT'L	SET	EA	UNIT	TOTAL	REMARKS
			QTY		WEIGHT KG		
PROJECT	GIPFEL KOREA STANDARD					DATE	
						2024.01	
TITLE	GFK-400ø BUSH					SCALE	
						1:1	
DRAWN		DESIGNED	CHECKED	APPROVED	REF DRAWING.		
KIM. J. H				KIM. M. C			
			SHEET NO.	SHEET NO.			
				GFK-19-400-BU			



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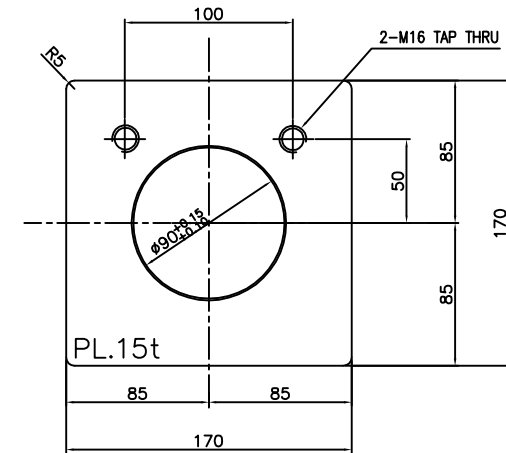
1	COLLAR	FCD40	1	4					
NO.	DESCRIPTIONS	MT'L	SET	EA	UNIT	TOTAL	REMARKS		
			QTY		WEIGHT KG		DATE		
PROJECT	GIPFEL KOREA STANDARD							2024.01	
TITLE	GFK-400φ							SCALE	
	COLLAR							1:1	
DRAWN	DESIGNED	CHECKED	APPROVED		REF DRAWING.				
KIM. J. H			KIM. M. C						
			SHEET NO.		SHEET NO.				
					GFK-19-400-C				

①

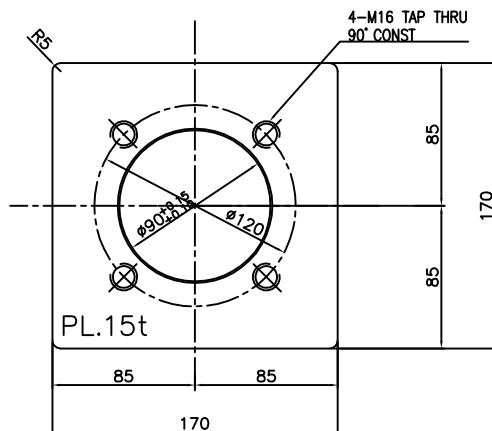
GFK-450 ϕ


M.P는 별도 설계제작

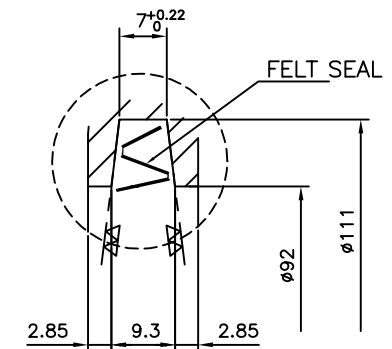
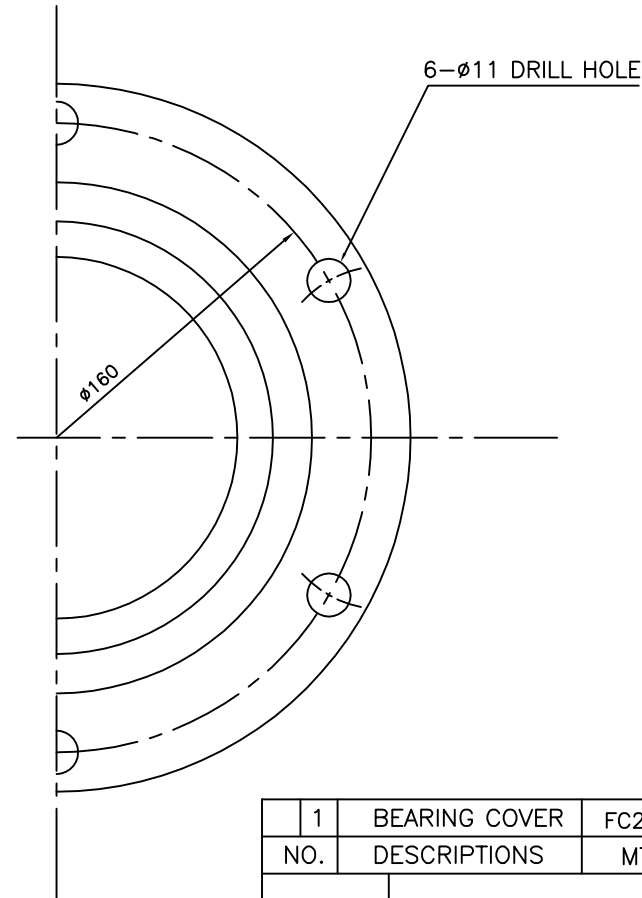
②




③

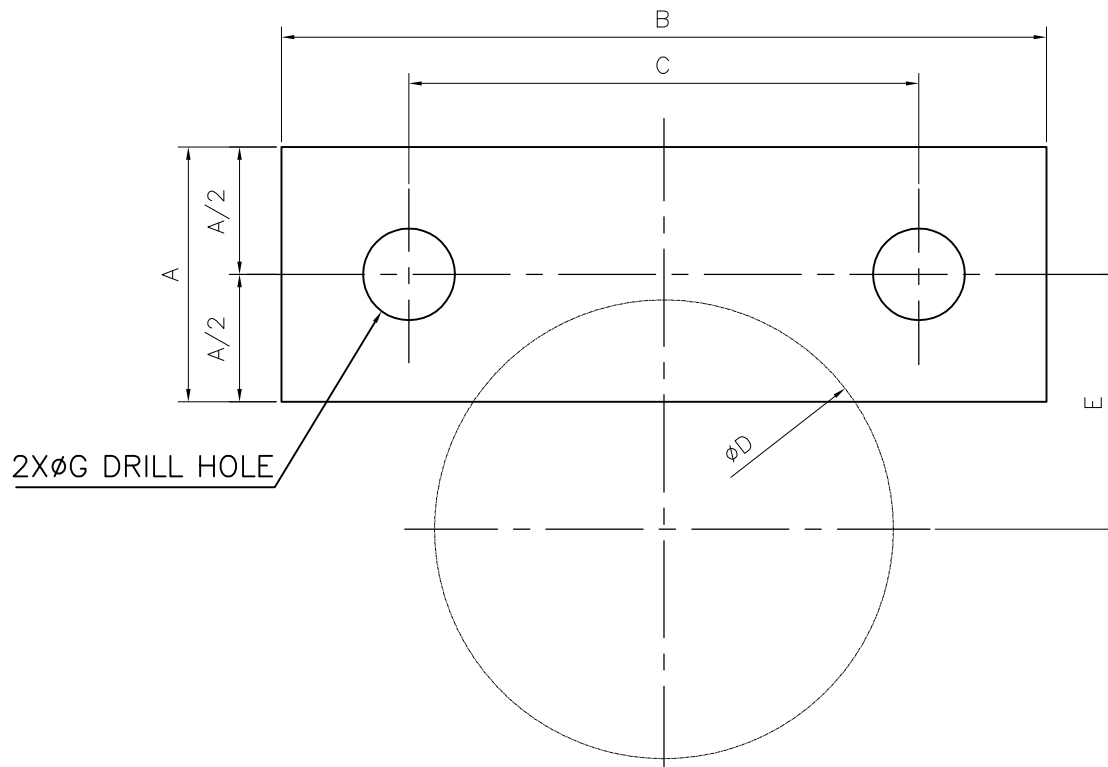
NOTEBREAK ALL SHARP EDGES OF HOLE C1

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	EA	UNIT	TOTAL	REMARKS
			QTY		WEIGHT KG		
PROJECT	GIPFEL KOREA STANDARD					DATE	
						2024.01	
TITLE	GFK-400ø PLATE					SCALE	
						1:1	
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.			
KIM. J. H			KIM. M. C				
		SHEET NO.	SHEET NO.				
			GFK-19-450-P				

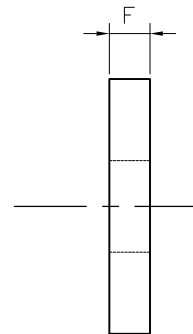



DETAIL "A"
SCALE=N/S

1	BEARING COVER	FC20	1	8			
NO.	DESCRIPTIONS	MT'L	SET	EA	UNIT	TOTAL	REMARKS
			QTY		WEIGHT KG		
PROJECT	GIPFEL KOREA STANDARD					DATE	
						2024.01	
TITLE	GFK-400ø BEARING COVER					SCALE	
						1:1	
DRAWN		DESIGNED	CHECKED	APPROVED		REF DRAWING.	
KIM. J. H				KIM. M. C			
			SHEET NO.		SHEET NO. GFK-19-400-BC		



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			