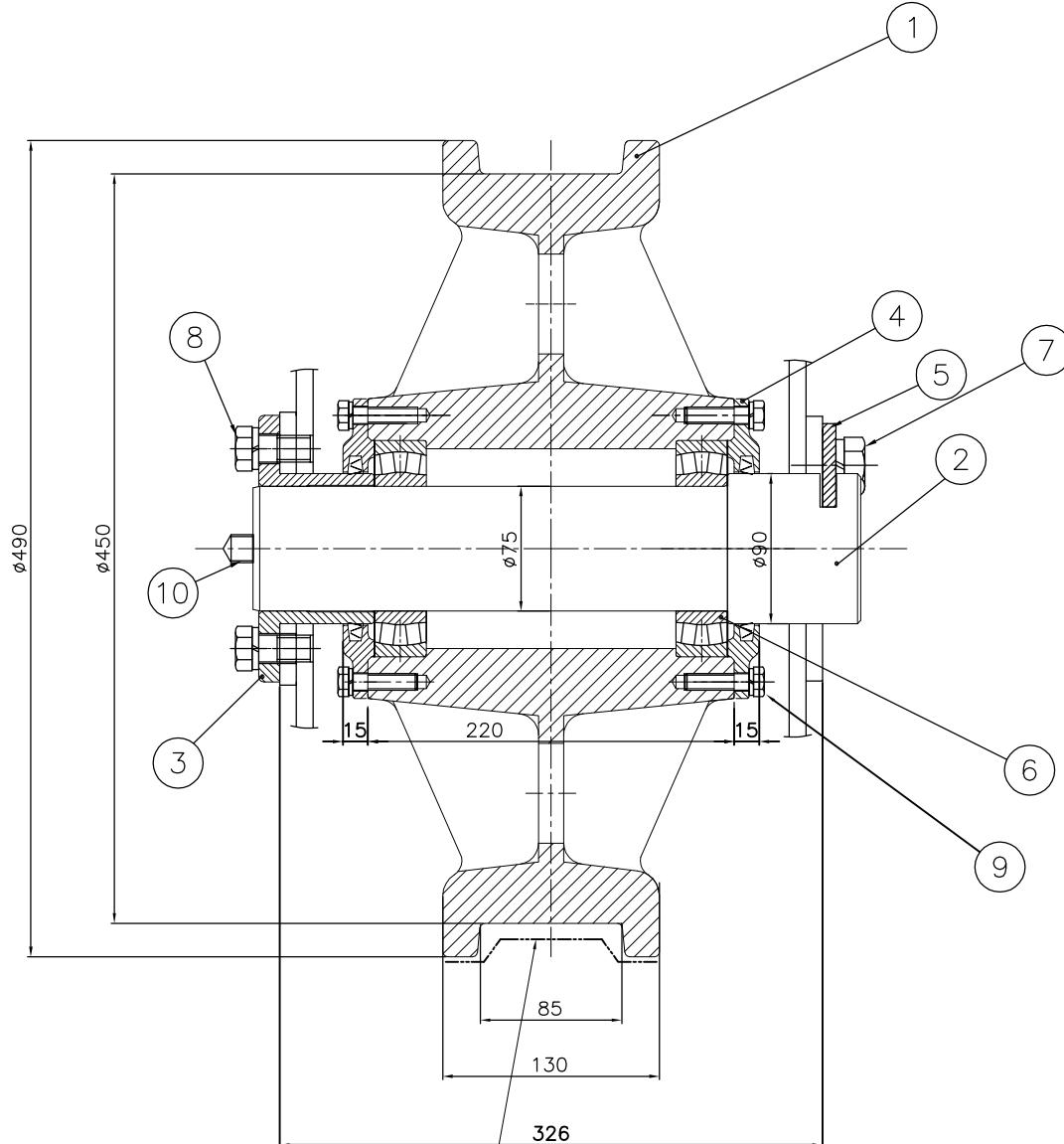


HIGH FREQUENCY HEAT TREATMENT  
 (高周波熱處理)  
 DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

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 Q'TY	EA	UNIT WEIGHT KG	TOTAL	REMARKS

PROJECT	GIPFEL KOREA STANDARD				DATE
					2024.01
TITLE	GFK-450Ø				SCALE
	DRIVING WHEEL ASS'Y				N/S
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.	
KIM. J. H				KIM. M. C	
		SHEET NO.	GFK-19-450-DWA		



HIGH FREQUENCY HEAT TREATMENT  
(高周波熱處理)

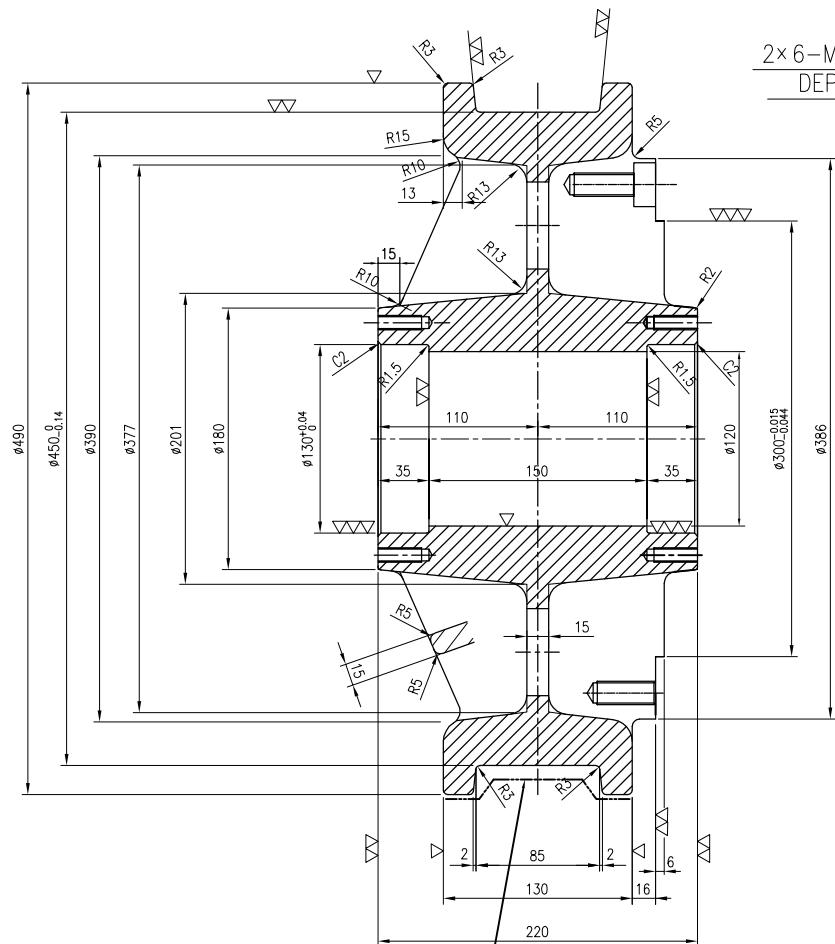
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

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 QT'Y	EA WEIGHT KG	UNIT TOTAL	REMARKS
PROJECT	GIPFEL KOREA STANDARD					DATE 2024.01
TITLE	GFK-450Ø 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			

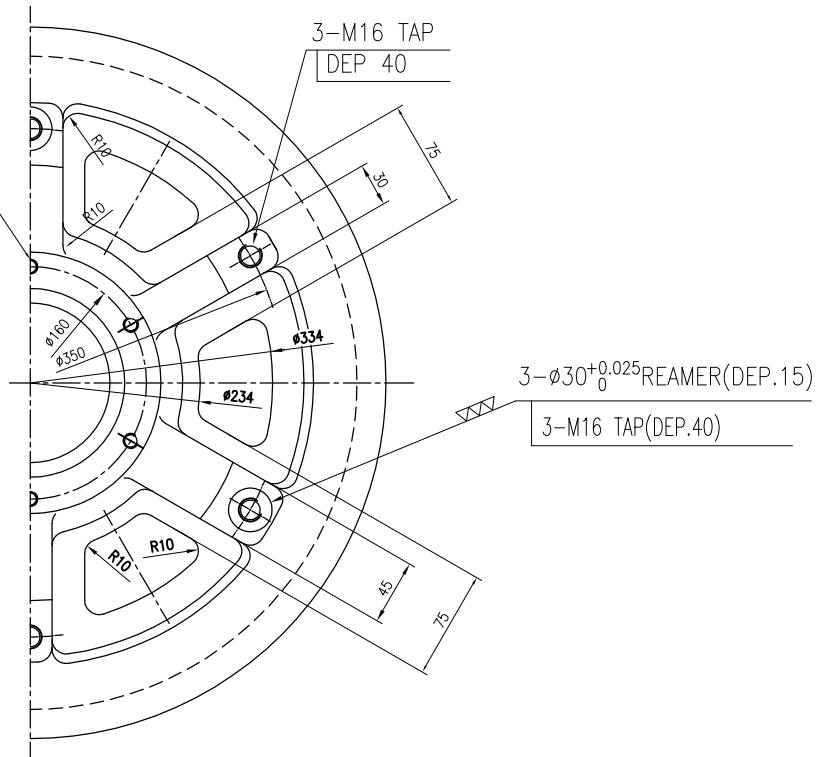
# MATERIAL SPECIFICATION

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	

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2x 6-M10 TAP  
DEP 25



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

NO.	DESCRIPTIONS	MT'L			REMARKS	
		SET QTY	EA	UNIT		
PROJECT	GIPFEL KOREA STANDARD					
TITLE	GFK-450Ø DRIVING WHEEL					
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.		
KIM. J. H				KIM. M. C		
		SHEET NO.	SHEET NO.	GFK-19-450-DW		

DATE

2024.01

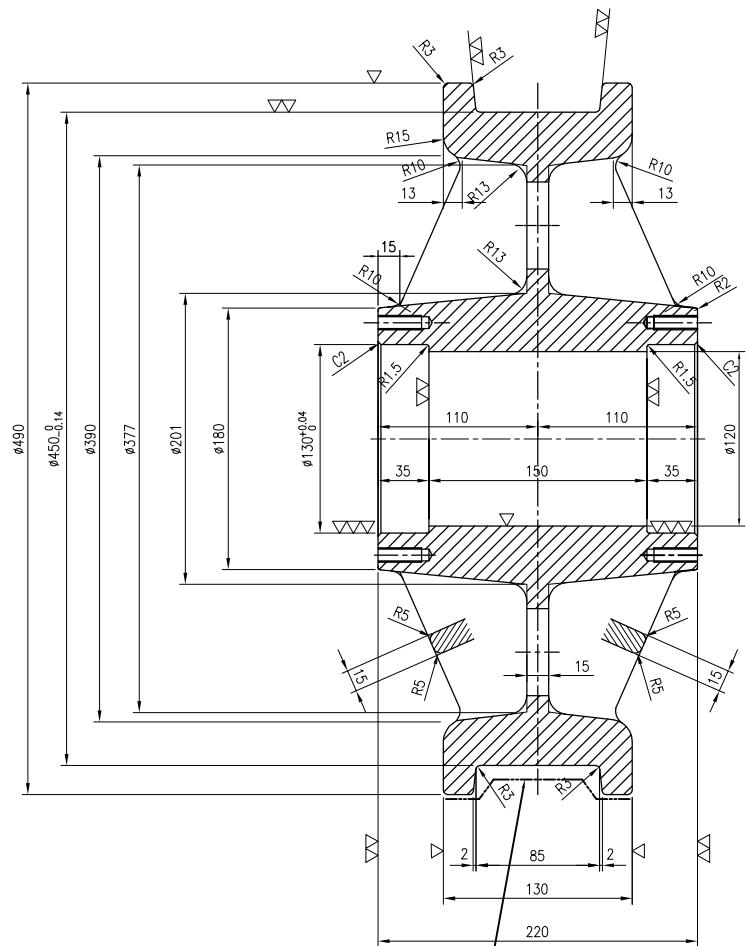
SCALE

1:1

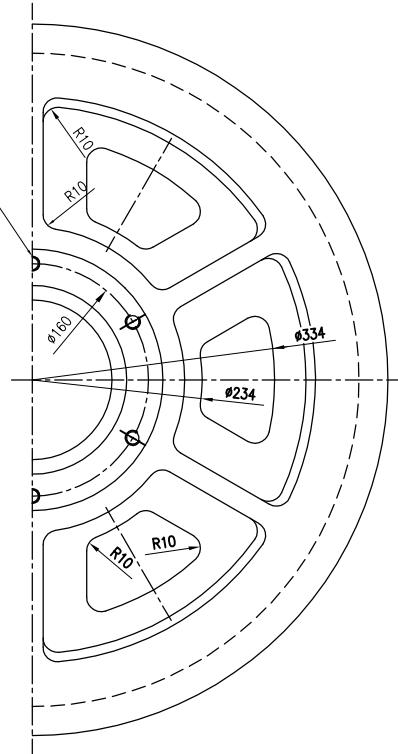
# MATERIAL SPECIFICATION

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

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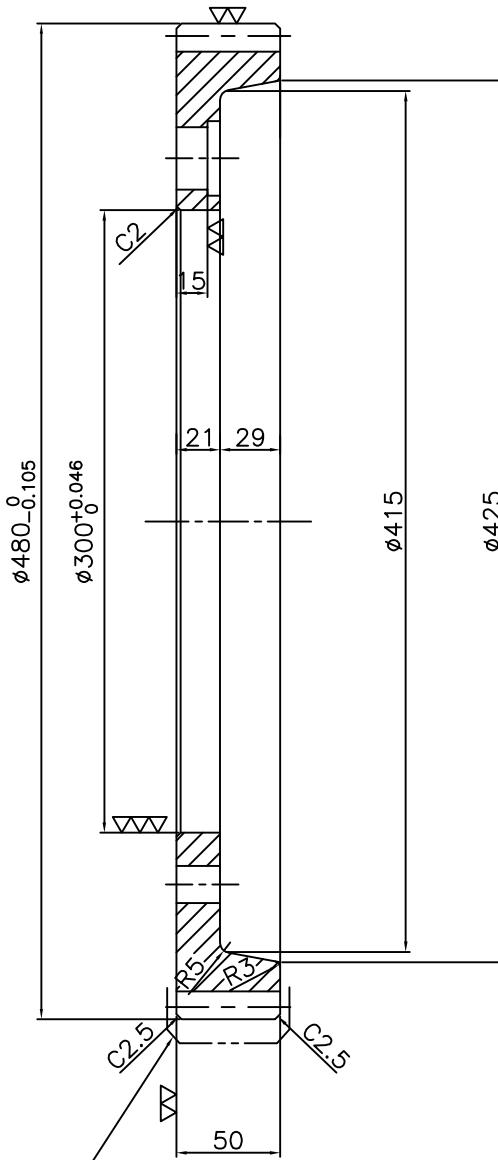


HIGH FREQUENCY HEAT TREATMENT  
(高周波熱処理)  
DEPTH : 0.3~1.5mm HARDNESS : HS 45~55

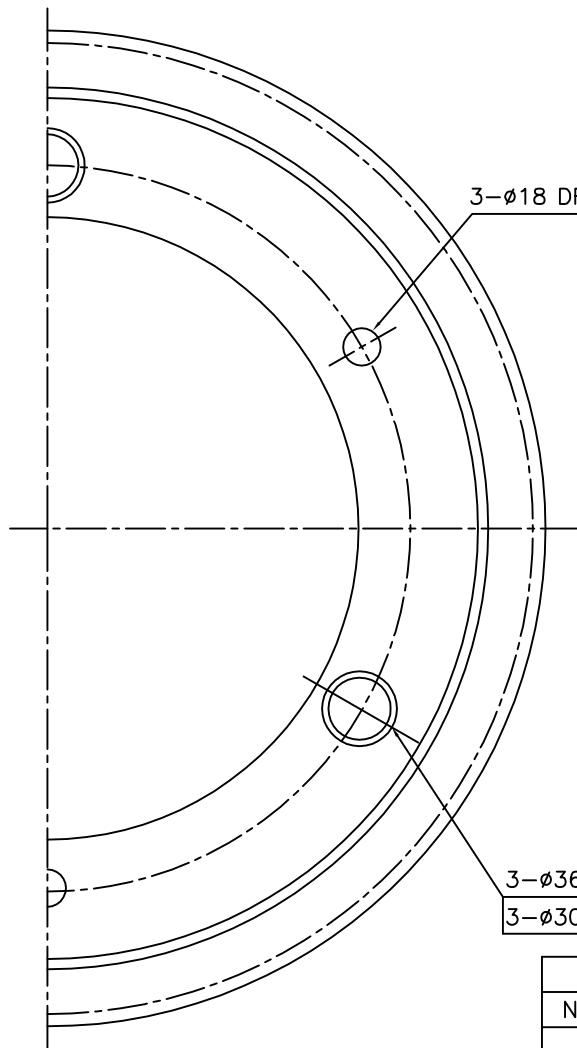


NO.	DESCRIPTIONS	SCMn2A			REMARKS		
		SET	EA	UNIT			
PROJECT		GIPFEL KOREA STANDARD					
TITLE		GFK-450Ø FOLLOWING WHEEL					
DRAWN		DESIGNED	CHECKED	APPROVED	REF DRAWING.		
KIM. J. H				KIM. M. C			
		SHEET NO.	SHEET NO.	GFK-19-450-FW			

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



## MATERIAL SPECIFICATION

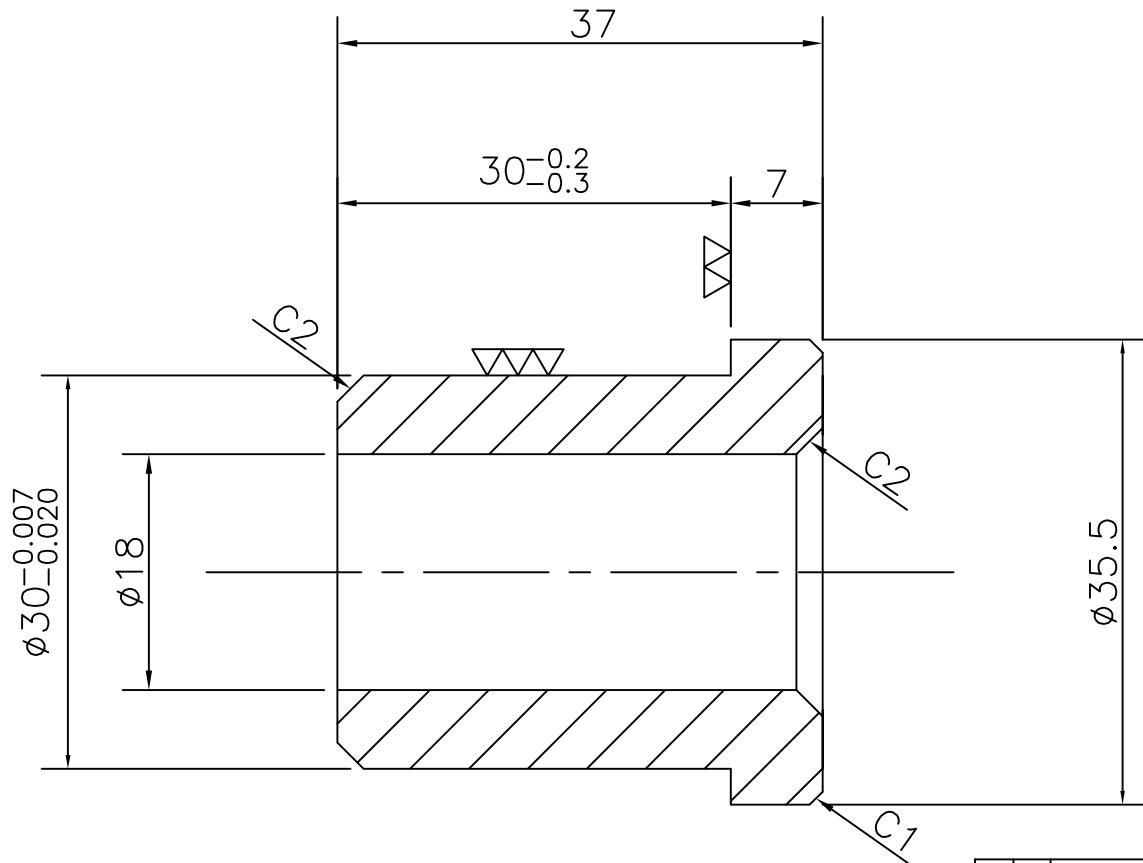
Material	JIS G 5101 SC49(SC480)			
Material Composition	C	P	S	
	0.4 †	0.040 †	0.040 †	
Mechanical Specification	Y.P (Yield point)	T.S (Tensile strength)	E.L (Elongation)	R.P (Reduction of area)
	MPa	MPa	%	%
	Min 245	Min 480	Min 17	Min 25

## GEAR SPECIFICATION

MODULE	6
PRESSURE ANGLE	20°
NO.OF TEETH	78 <sup>T</sup>
D.O.G.N OF TEETH	9 <sup>T</sup> )157.11 $\begin{smallmatrix} -0.12 \\ +0.45 \end{smallmatrix}$
P.C.D	Ø 468
WHEEL SIZE	Ø 450

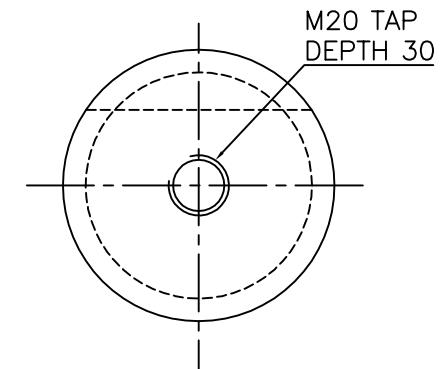
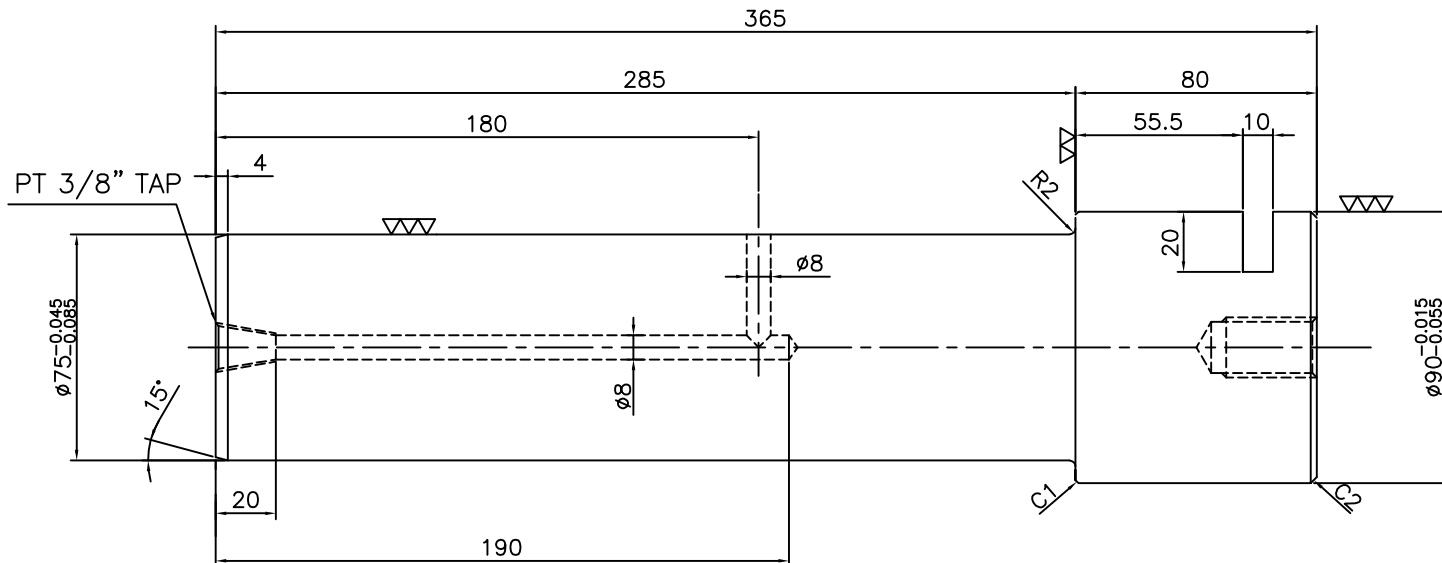
1	WHEEL GEAR	SC49	1	2						
NO.	DESCRIPTIONS	MT'L	SET QTY	EA UNIT	UNIT WEIGHT KG	TOTAL	REMARKS			
PROJECT	GIPFEL KOREA STANDARD				DATE					
					2024.01					
TITLE	GFK-450Ø WHEEL GEAR				SCALE					
					1:1					
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.						
KIM. J. H			KIM. M. C							
 <b>GIPFEL</b>			SHEET NO.	SHEET NO.						
				GFK-19-450-WG						

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NO.	DESCRIPTIONS	MT'L	1	6	TOTAL WEIGHT KG	REMARKS		
			SET	EA				
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					

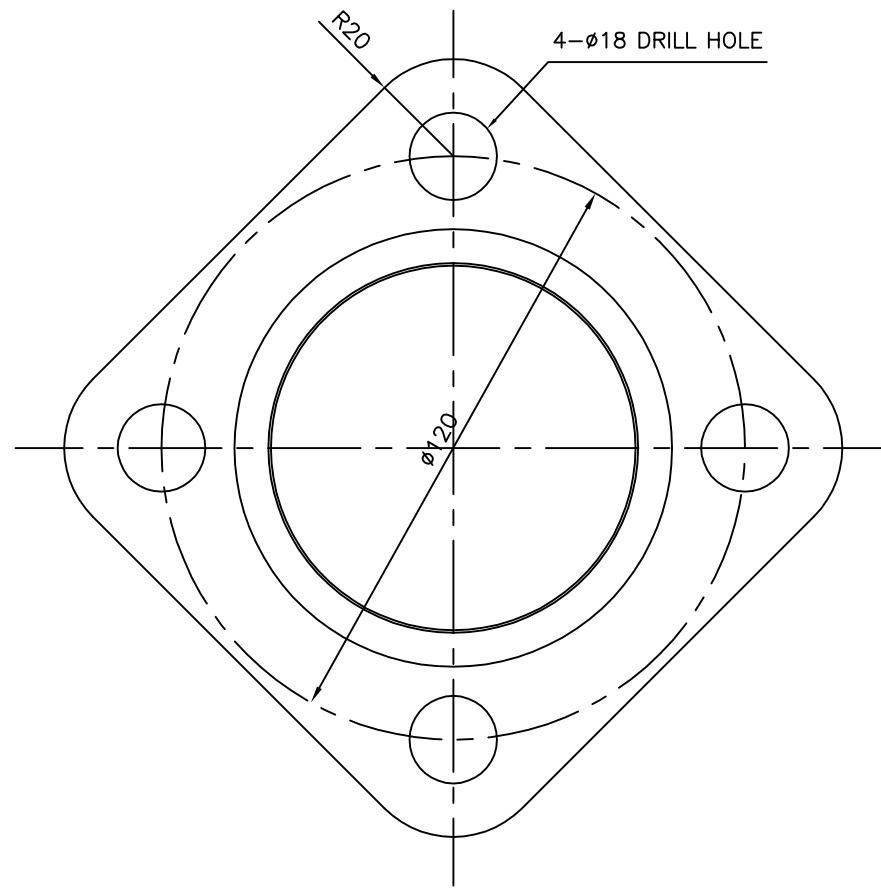
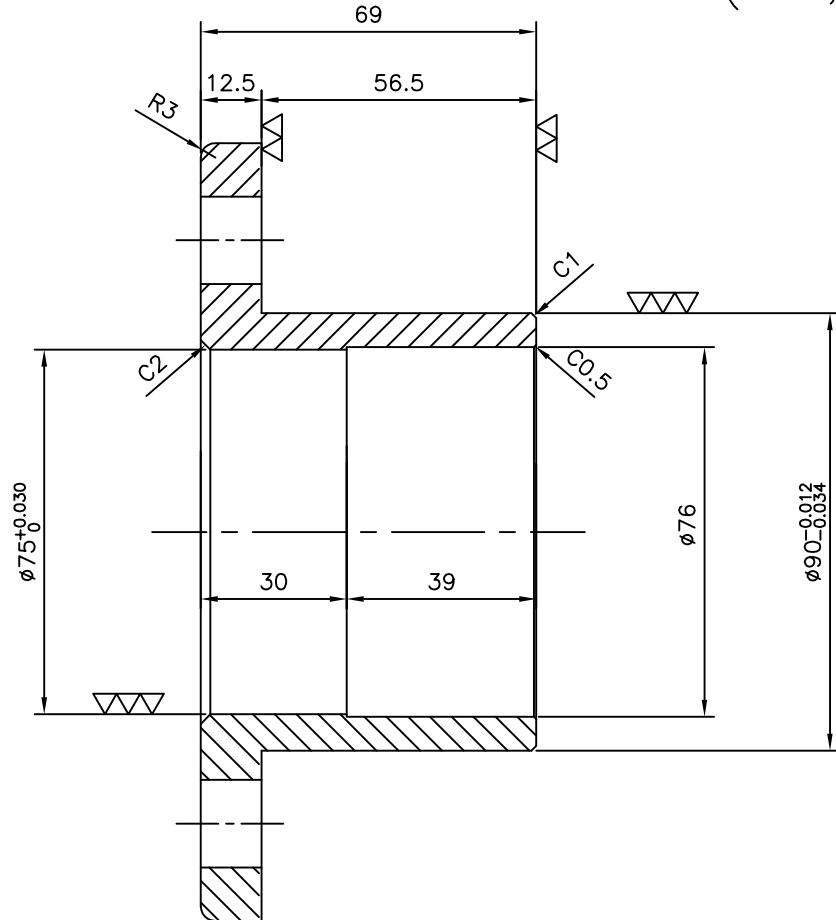
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1	SHAFT	S45CN	1	4				
NO.	DESCRIPTIONS	MT'L	SET	EA	UNIT	TOTAL	REMARKS	
PROJECT		GIPFEL KOREA STANDARD						DATE
							2024.01	
TITLE		GFK-400Ø						SCALE
		SHAFT						1:1
DRAWN			DESIGNED		CHECKED		APPROVED	REF DRAWING.
KIM. J. H							KIM. M. C	
			SHEET NO.		SHEET NO.		GFK-19-400-S	

GFK-400 , GFK-450 겸용

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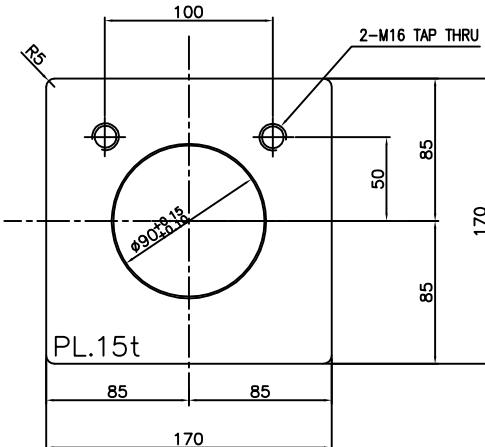
NO.	DESCRIPTIONS	MT'L	1	COLLAR	FCD40	1	4												
			SET	EA	UNIT	TOTAL	REMARKS												
PROJECT		GIPFEL KOREA STANDARD								DATE									
										2024.01									
TITLE		GFK-400φ COLLAR								SCALE									
										1:1									
DRAWN			DESIGNED		CHECKED		APPROVED		REF DRAWING.										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

①

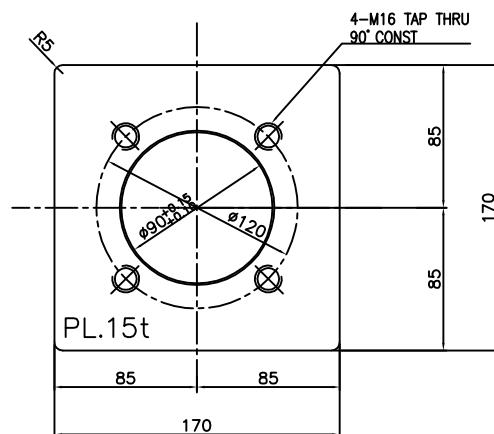
GFK-450Ø

M.P는 별도 설계제작

②



③

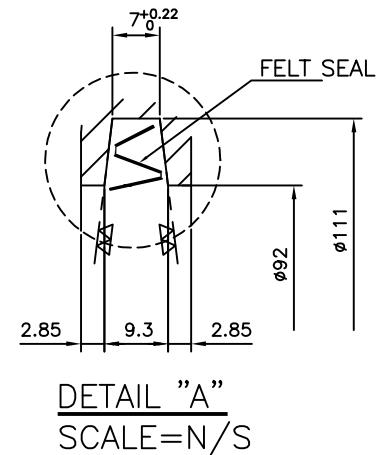
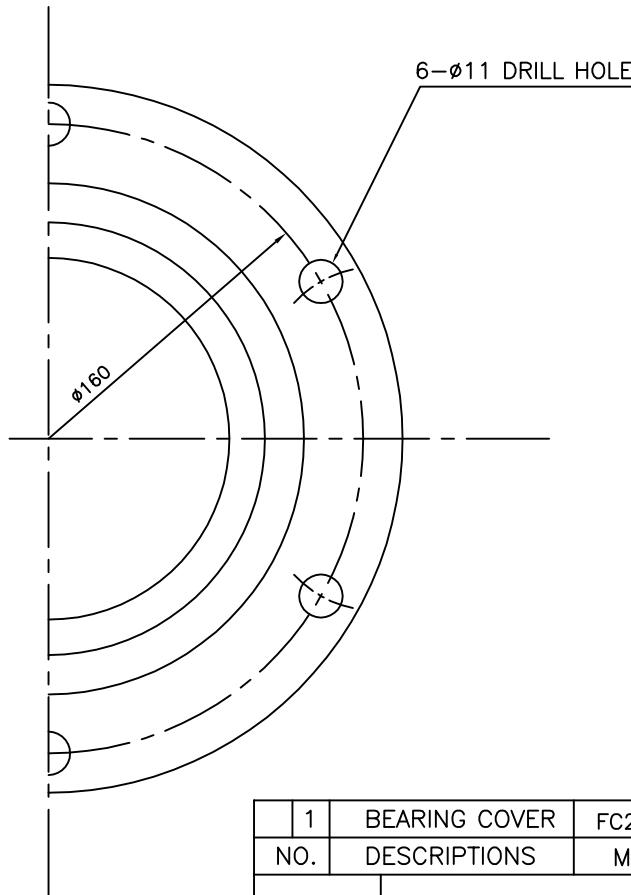
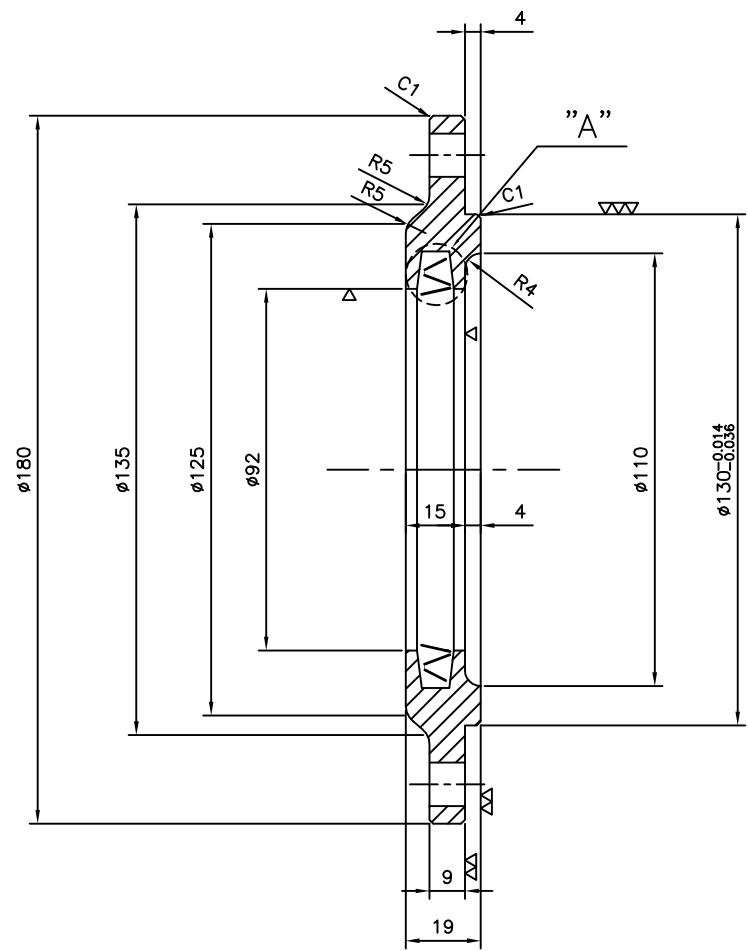


NOTE

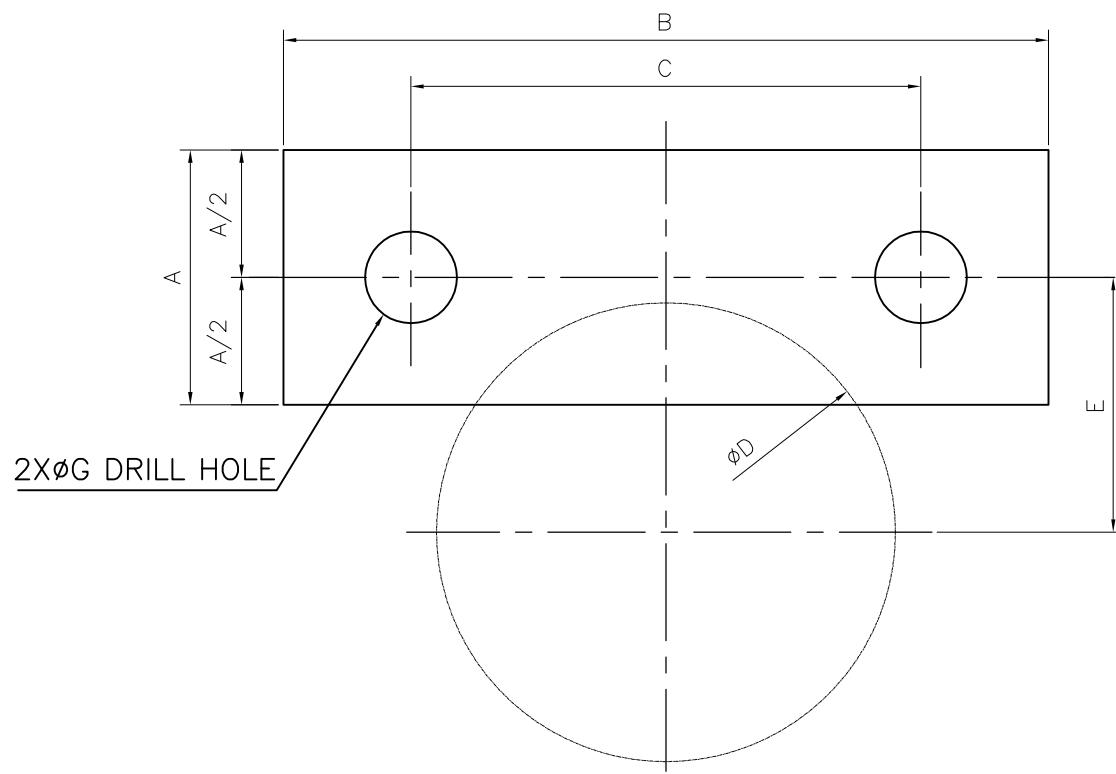
BREAK ALL SHARP EDGES OF HOLE C1

NO.	DESCRIPTIONS	MT'L	SET	EA	UNIT	TOTAL	REMARKS
			Q'TY	WEIGHT KG			
1	PLATE		1				
2	SHAFT PLATE	SS400		2			15t
1	MOTOR PLATE	SS400		2			15t
3	COLLAR PLATE	SS400		4			15t
	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			

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NO.	DESCRIPTIONS	MT'L	1	8	TOTAL WEIGHT KG	REMARKS		
			SET Q'TY	EA UNIT				
PROJECT	GIPFEL KOREA STANDARD					DATE 2024.01		
TITLE	GFK-400φ 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					SCALE		
	KEY PLATE					N/S		
DRAWN	DESIGNED	CHECKED	APPROVED	REF DRAWING.				
KIM. J. H			KIM. M. C					
				SHEET NO.	SHEET NO.			
							GFK-19-K	