

KGT Series



Indication of Model Numbers

KGT	-	60	B	-	10	-	MOTOR
Type		Model	Output Table Supporting Bearing		Ratio		Motor Type
KGT		60 85 110 135 200	B : Ball Bearing C : Crossed Roller Bearing		1-Stage 5, 10, 18 2-Stage 25, 50, 100		Motor Brand & Model No.

저소음

헬리컬기어 사용으로 부드럽고 조용한 운전가능

Quiet operation

Grinding spiral bevel gear & Helical gears contribute to reduce vibration and noise.

고강성, 높은 토크

uncage needle bearing 사용, 강성과 토크를 높임

High Rigidity & High Torque

High rigidity & high torque are achieved by crossed roller bearings.

고효율

효율 95%이상

High Efficiency

Efficiency exceeds 95%.

Features of KGT Series

KGT Series 제품 특성

다양한 모터 체결 용이

Servo 및 Stepping Motor 그밖의 각종 Motor와 장착이 용이하며 감속기 입력축과 Motor Shaft를 연결하는 Collet Locking 방식으로 역학상 확실한 체결력과 높은 속도에서도 백래쉬가 발생하지 않고 동력을 효율적으로 전달합니다.

Flexible Motor Connection

The modular design of motor connection plate is suitable for any brand servomotor and stepmotor. The input-end and the motor are coupled through a collet locking mechanism. It has passed dynamical balance analysis to assure concentricity and balance on the connection and no backlash for power transmission while running at high speed.

외부 표면 및 베어링

- 몸체는 알루미늄 합금 소재로써 산화 및 부식 방지에 강한 내환경 표면처리
- 하중 정도의 상황에 따라 Ball Bearing 및 Cross Roller Bearing 선택 가능

중공테이블 구조

복잡한 배선 작업 및 배관 작업이 용이

Hollow Structure Design

Make it convenient for electric wiring or piping work.

고정도 위치결정

한방향 반복 오차 정밀도 $\pm 10 \text{ sec}$
Lost Motion 2 arcmin

High Accuracy

Repetitive Positioning Accuracy $\pm 10 \text{ sec}$
Lost Motion 2 arcmin



간편한 장착

장비의 테이블이나 Arm을 직접 설치하여 부품수를 줄이고 유지보수가 편리합니다.

Direct Mounting of Workpiece

The rotating table allows for direct mounting of workpiece for added convenience in workpiece loading.



Helical Gear

기어 맞물림이 평기어의 2배 이상인 Helical Gear 적용으로 동작 소음을 최소화하고 고출력, 저소음, 저백래쉬를 실현했습니다.

Helical Gear Design

The speed reduction mechanism employs helical gears, which provides two times meshing rate of teeth when comparing with regular spur gears. In addition, it also Specification extremely smooth running, low noise, high torque output and low backlash.

고정밀, 고강도 기어

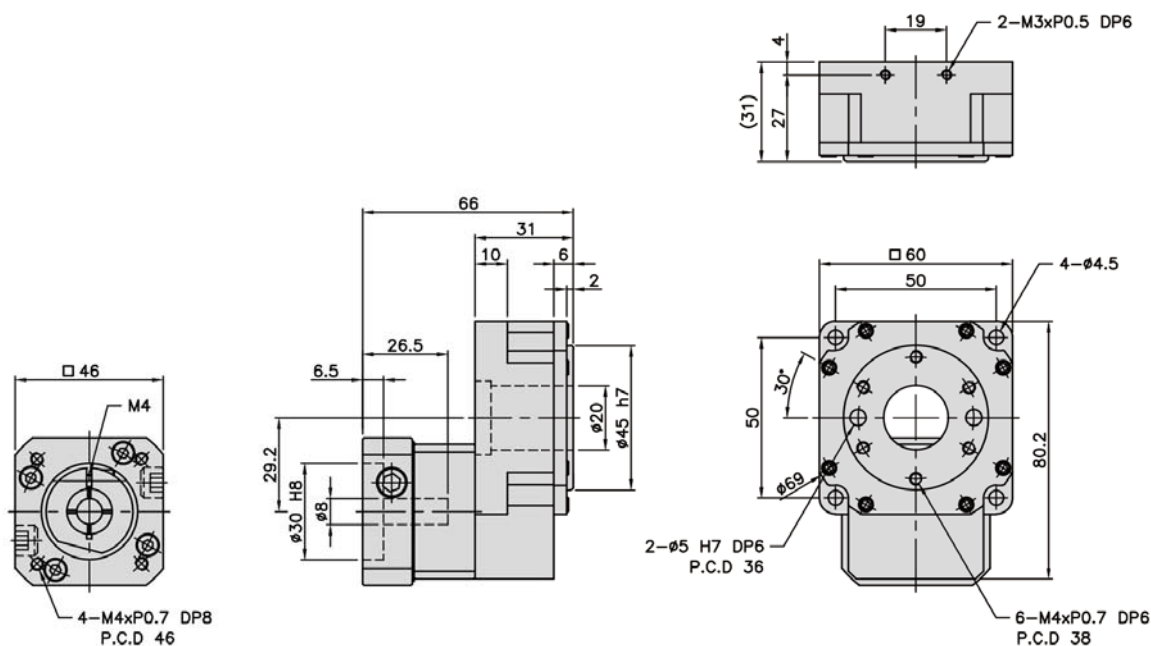
정밀 가공된 알루미늄 Housing을 적용했으며 HRC57~60의 강도와 정밀도 향상을 위해 열처리 후 스카이빙 연마공정을 적용하여 DIN6 Class(JIS 2급) 이내의 등급을 유지합니다.

High Precision Gear Machining

The housing of reducer is made by aluminum alloy, and precision machining by CNC machine. Precision teeth grinding assures gear accuracy reaches DIN6 class and carburized to hardness 58-60HRC.

MODEL : KGT-60B

RATIO : 5, 10, 18 (1-Stage)



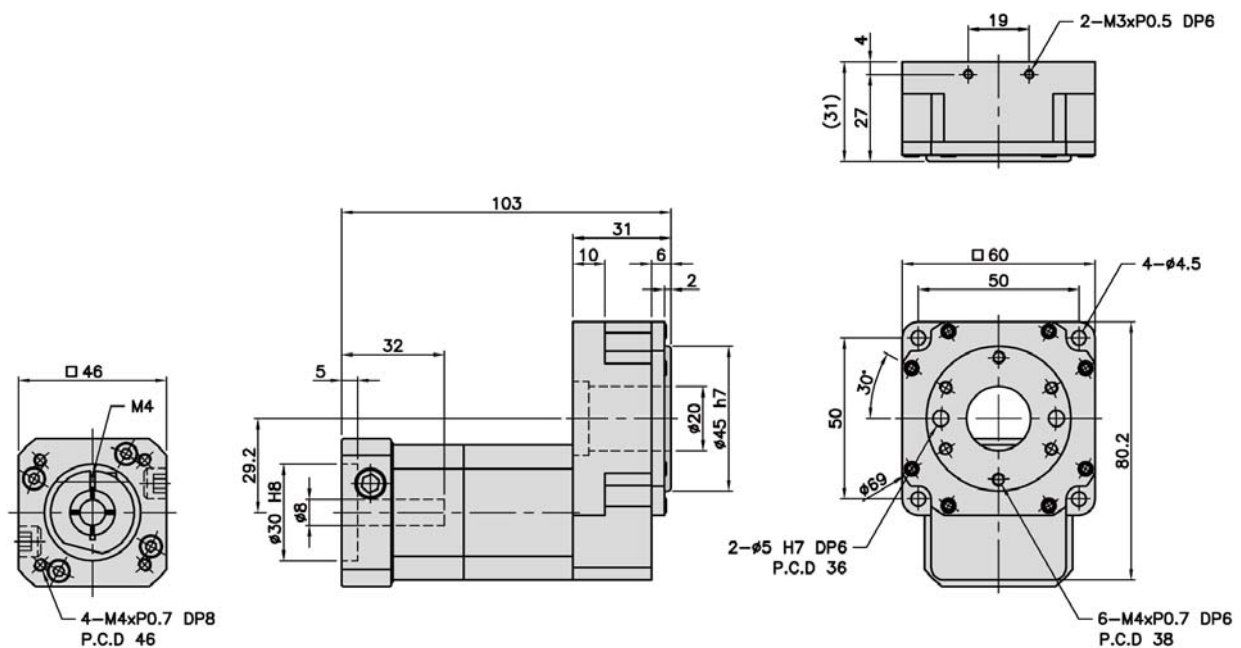
Characteristic		Unit	KGT-60B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	5
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	777×10^{-7}
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	350
Permissible Moment Load		Nm	7
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	0.54

MODEL : KGT-60B

RATIO : 25, 50, 100 (2-Stage)



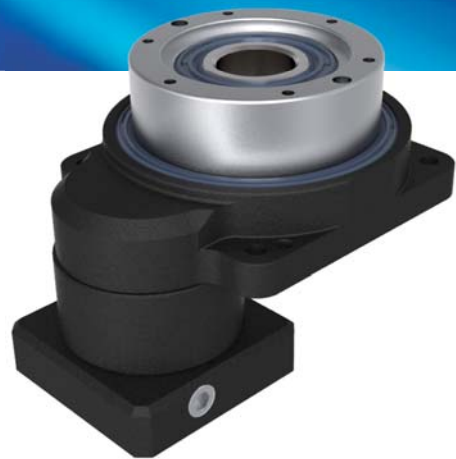
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Characteristic		Unit	KGT-60B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	5
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	777×10^{-7}
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	350
Permissible Moment Load		Nm	7
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	1.1

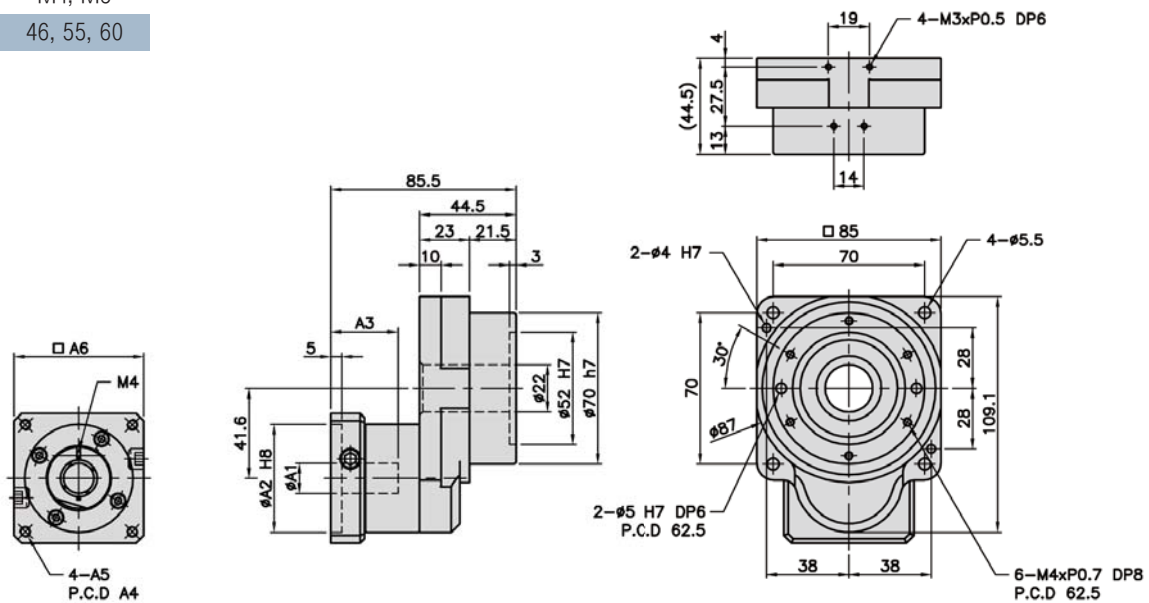
MODEL : KGT-85B

RATIO : 5, 10, 18 (1-Stage)



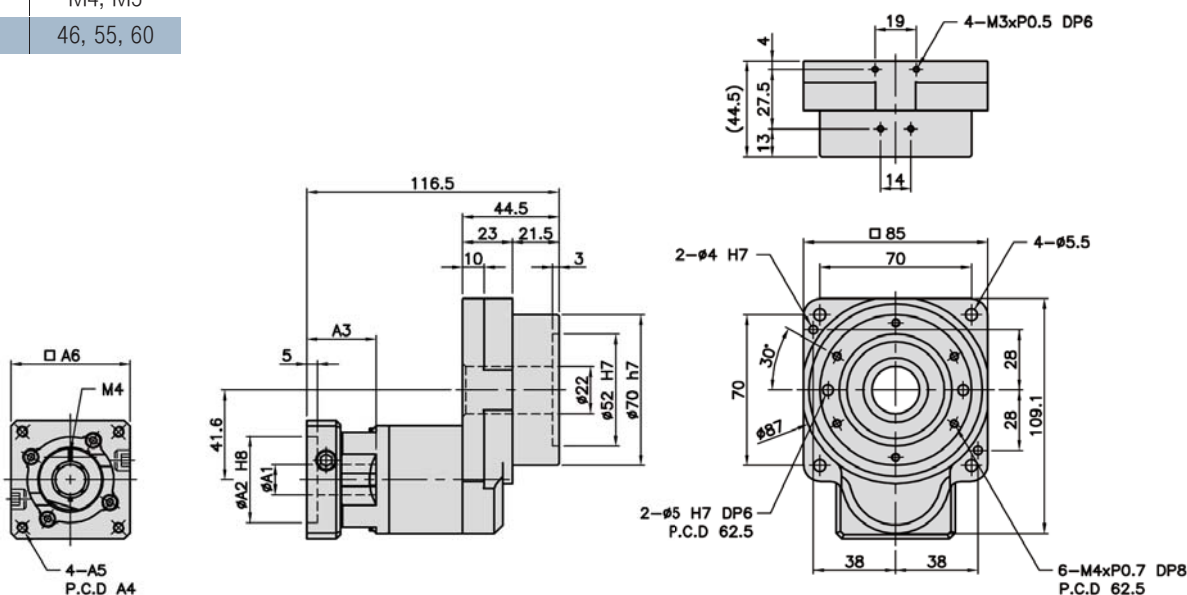
Unit : mm

Model Code	85B
A1	8 ~ 14
A2	30, 40, 50
A3	31
A4	46, 63, 70
A5	M4, M5
A6	46, 55, 60



Characteristic		Unit	KGT-85B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	18
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,268 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2rB}	N	600
Permissible Moment Load		Nm	12
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	1.17

Model Code	85B
A1	8 ~ 14
A2	30, 40, 50
A3	32
A4	46, 63, 70
A5	M4, M5
A6	46, 55, 60



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PLANETARY GEARHEAD
HADDONSBURY, MA

MODEL : KGT-110B

RATIO : 5, 10, 18 (1-Stage)

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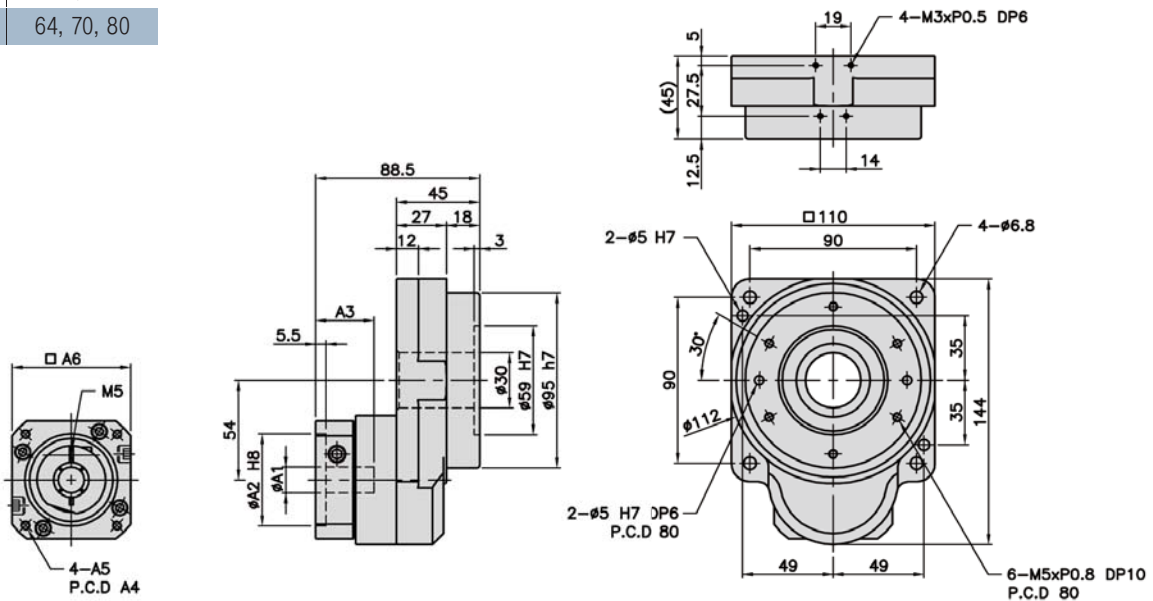
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Unit : mm

Model Code	110B
A1	14
A2	50, 60, 70
A3	31.5
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



Characteristic		Unit	KGT-110B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	33
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,562 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	800
Permissible Moment Load		Nm	16
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	2.54

MODEL : KGT-110B

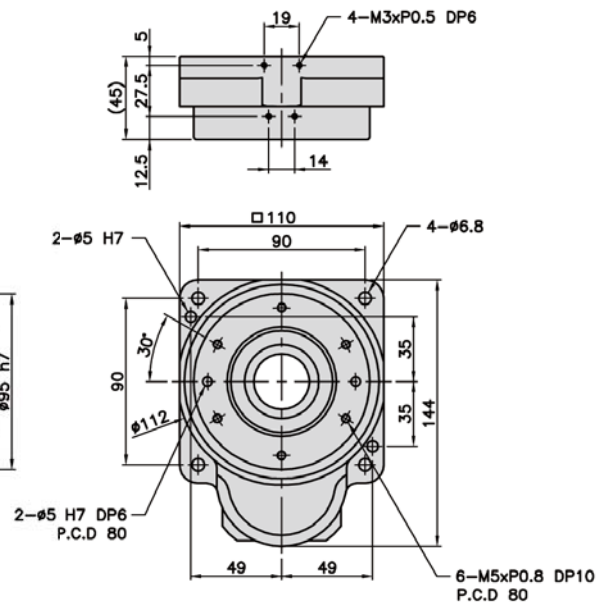
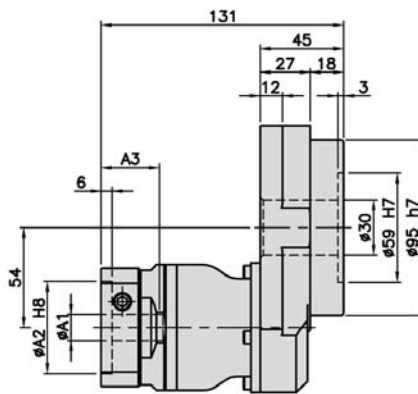
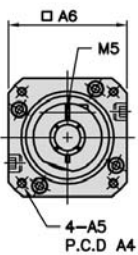
RATIO : 25, 50, 100 (2-Stage)

KGT



Unit : mm

Model Code	110B
A1	14
A2	50, 60, 70
A3	33.5
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



Characteristic		Unit	KGT-110B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	33
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,562 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	800
Permissible Moment Load		Nm	16
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	3.76

MODEL : KGT-135B

RATIO : 5, 10, 18 (1-Stage)

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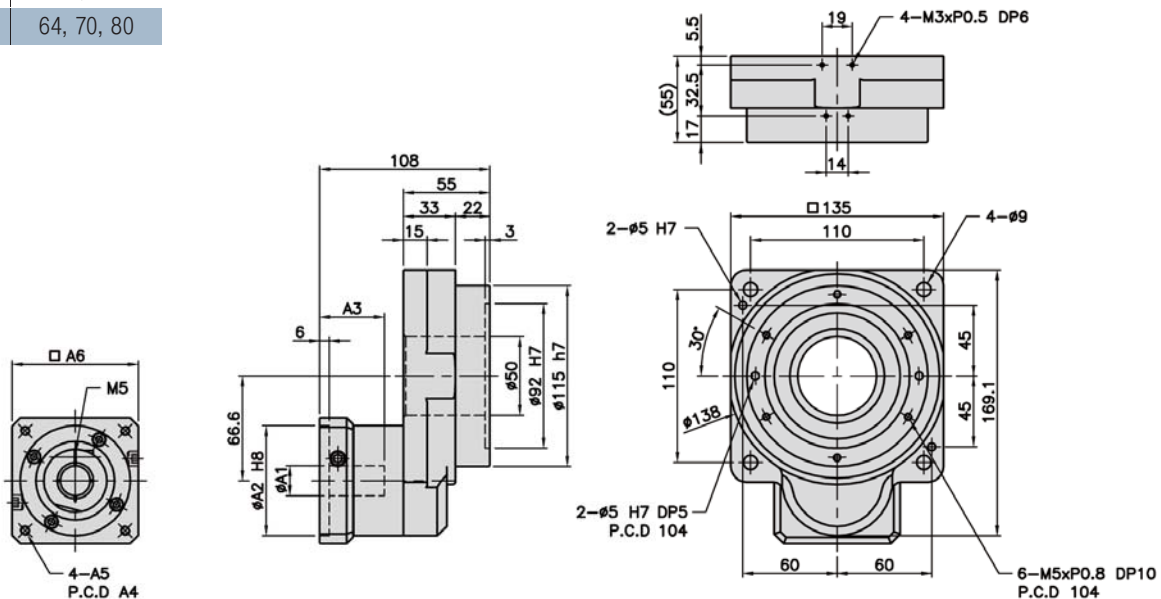
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Unit : mm

Model Code	135B
A1	14 ~ 19
A2	50, 60, 70
A3	41
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



Characteristic		Unit	KGT-135B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	43
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$2,918 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	1,450
Permissible Moment Load		Nm	30
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	3.83

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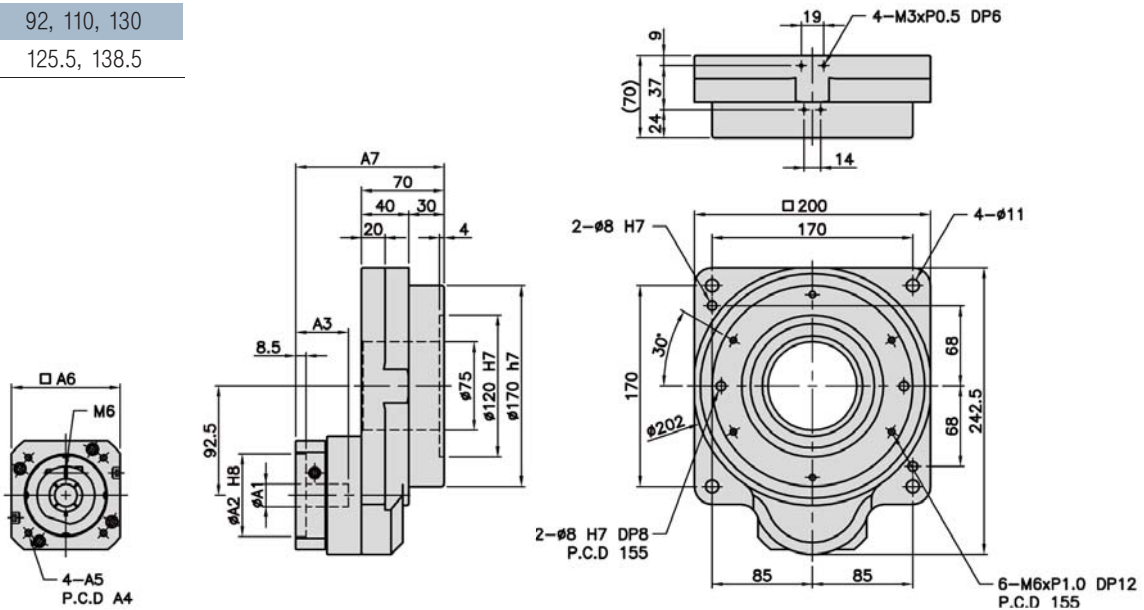
MODEL : KGT-200B

RATIO : 5, 10, 18 (1-Stage)



Unit : mm

Model Code	200B
A1	19 ~ 24
A2	70, 80, 95, 110
A3	44.5, 57.5
A4	90, 100, 115, 145
A5	M6, M8
A6	92, 110, 130
A7	125.5, 138.5



Characteristic		Unit	KGT-200B
Output Table Supporting Bearing			Ball Bearing
Rated Output Torque	T_{2N}	Nm	142
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$29,072 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	300
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	2,500
Permissible Moment Load		Nm	50
Runout of Output Table Surface		mm	0.02
Runout of Output Table Inner / Outer Diameter		mm	0.02
Parallelism of Output Table		mm	0.03
Protection Class			IP 65
Weight		kg	10.09

Technical drawing of a mechanical part, showing two views: a side view (top) and a front view (bottom).

Side View (Top):

- Overall width: 19
- Overall height: 9
- Internal features: 4-M3xP0.5 DP6
- Internal dimensions: 24, 37, 14

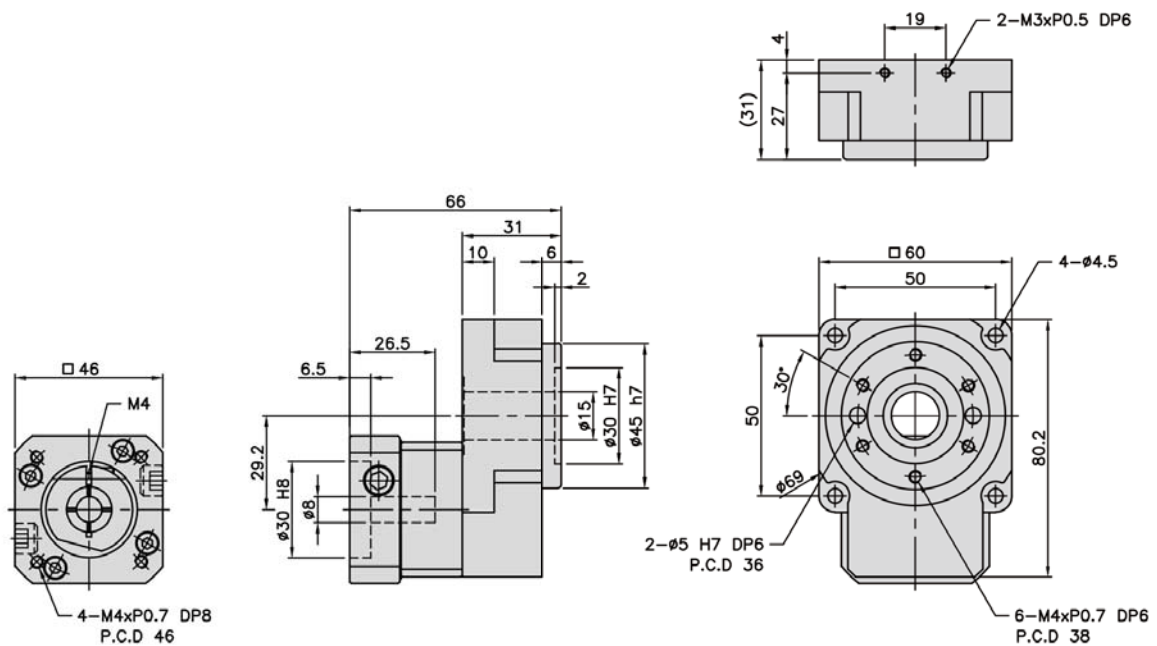
Front View (Bottom):

- Overall width: 200
- Overall height: 170
- Internal features: 2-ø8 H7, 4-ø11, 2-ø8 H7 DP8 P.C.D 155, 6-M6xP1.0 DP12 P.C.D 155
- Internal dimensions: 170, 68, 242.5, 85, 85, 30°, 202

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MODEL : KGT-60C

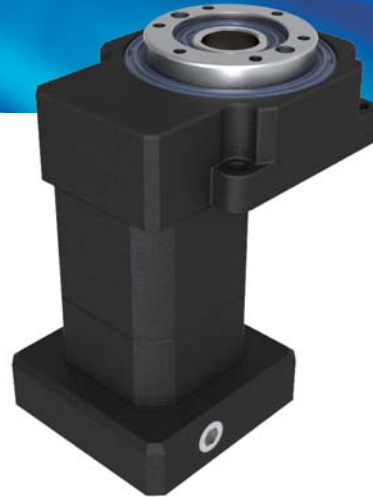
RATIO : 5, 10, 18 (1-Stage)



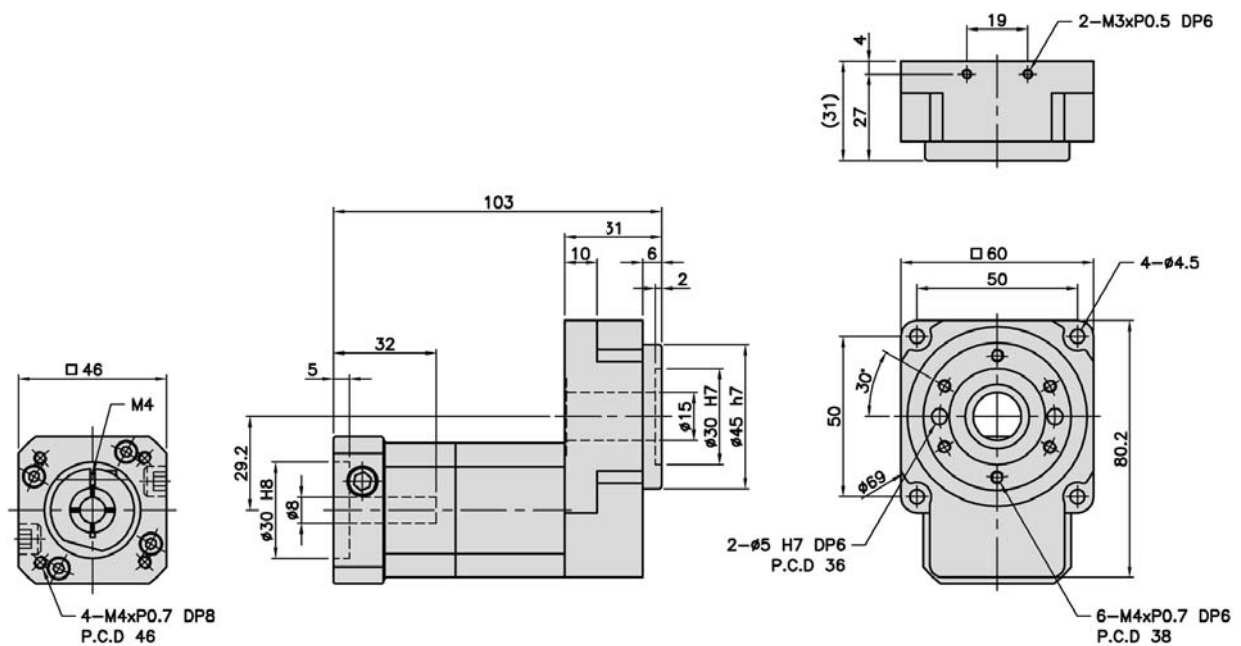
Characteristic		Unit	KGT-60C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	5
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	735×10^{-7}
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	500
Permissible Moment Load		Nm	10
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	0.62

MODEL : KGT-60C

RATIO : 25, 50, 100 (2-Stage)



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Characteristic		Unit	KGT-60C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	5
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	735×10^{-7}
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	500
Permissible Moment Load		Nm	10
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	1.1

MODEL : KGT-85C

RATIO : 5, 10, 18 (1-Stage)

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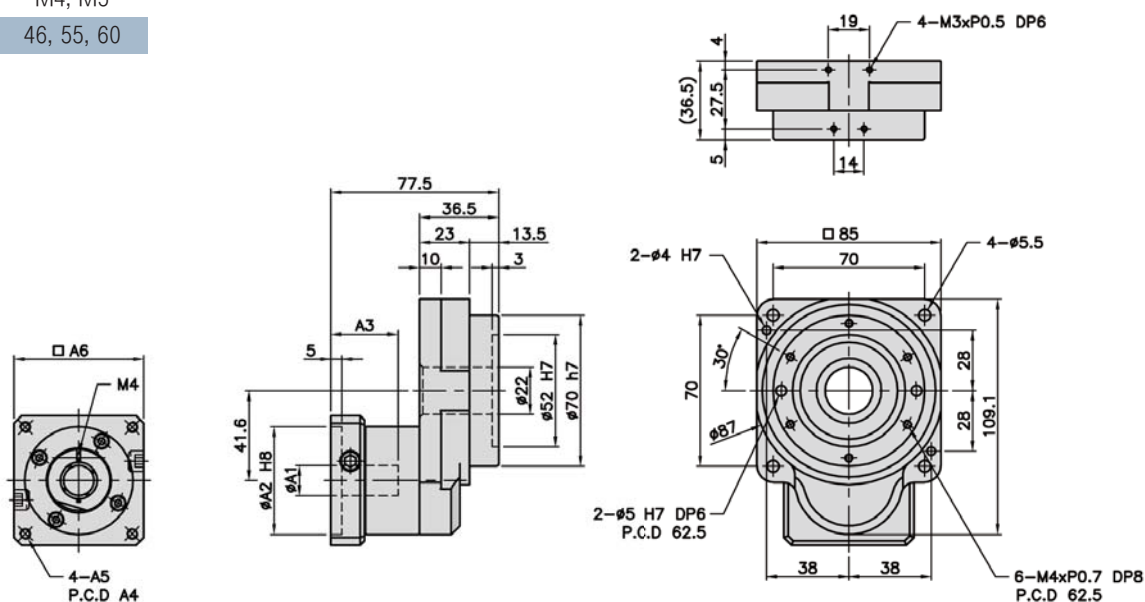
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Unit : mm

Model Code	85C
A1	8 ~ 14
A2	30, 40, 50
A3	31
A4	46, 63, 70
A5	M4, M5
A6	46, 55, 60



Characteristic		Unit	KGT-85C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	18
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,203 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	900
Permissible Moment Load		Nm	18
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	1.1

MODEL : KGT-85C

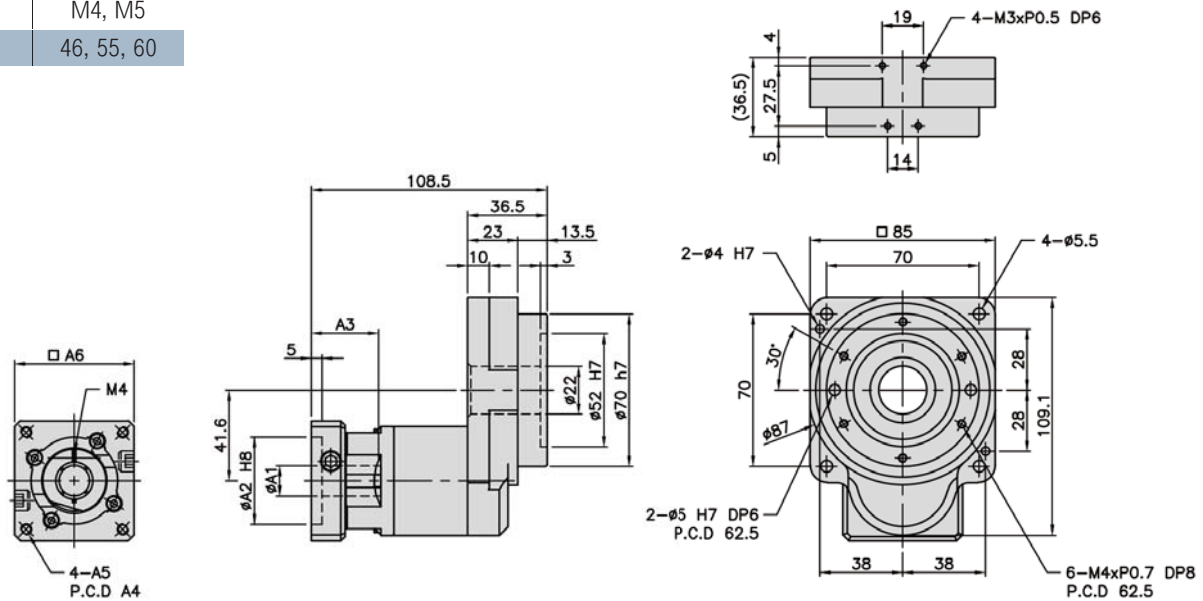
RATIO : 25, 50, 100 (2-Stage)

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Unit : mm

Model Code	85C
A1	8 ~ 14
A2	30, 40, 50
A3	32
A4	46, 63, 70
A5	M4, M5
A6	46, 55, 60



Characteristic		Unit	KGT-85C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	18
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,203 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	900
Permissible Moment Load		Nm	18
Runout of Output Table Surface		mm	0.01
Runout of Output Table Inner / Outer Diameter		mm	0.01
Parallelism of Output Table		mm	0.02
Protection Class			IP 65
Weight		kg	1.78

MODEL : KGT-110C

RATIO : 5, 10, 18 (1-Stage)

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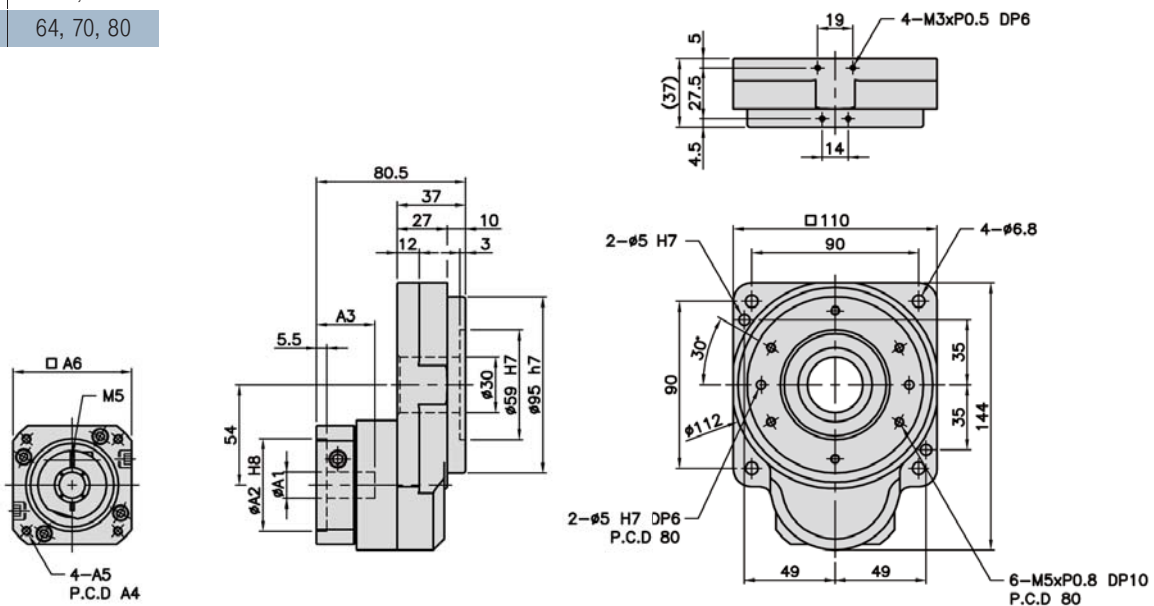
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Unit : mm

Model Code	110C
A1	14
A2	50, 60, 70
A3	31.5
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



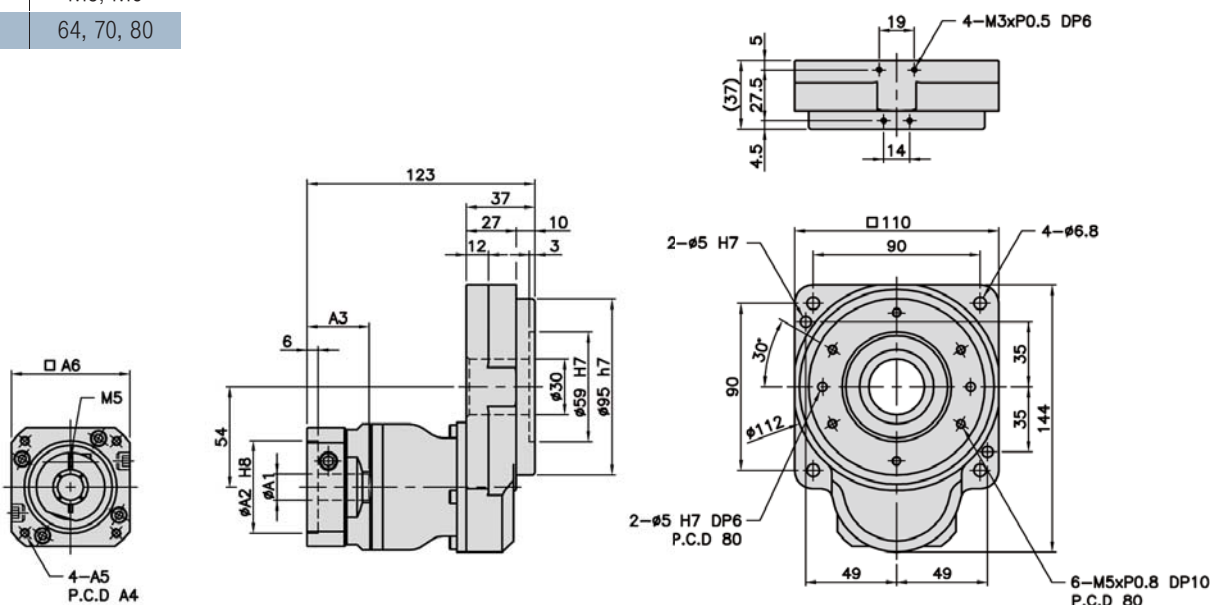
Characteristic		Unit	KGT-110C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	33
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$1,483 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	1,200
Permissible Moment Load		Nm	24
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	2.04

RATIO : 25, 50, 100 (2-Stage)



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Unit : mm	
Model Code	110C
A1	14
A2	50, 60, 70
A3	33.5
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



Characteristic		Unit	KGT-110C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T _{2N}	Nm	33
Max. Output Torque Emergency Stop Torque	T _{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	1,483 x 10 ⁻⁶
Output Permissible Speed	n ₂	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F _{2aB}	N	1,200
Permissible Moment Load		Nm	24
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	3.51

MODEL : KGT-135C

RATIO : 5, 10, 18 (1-Stage)

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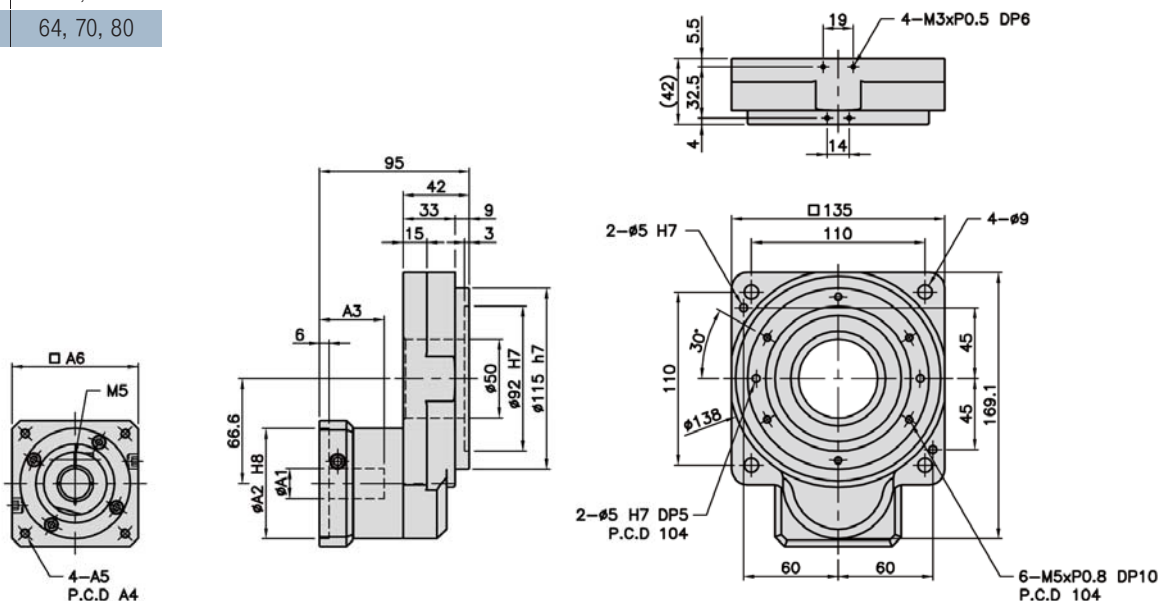
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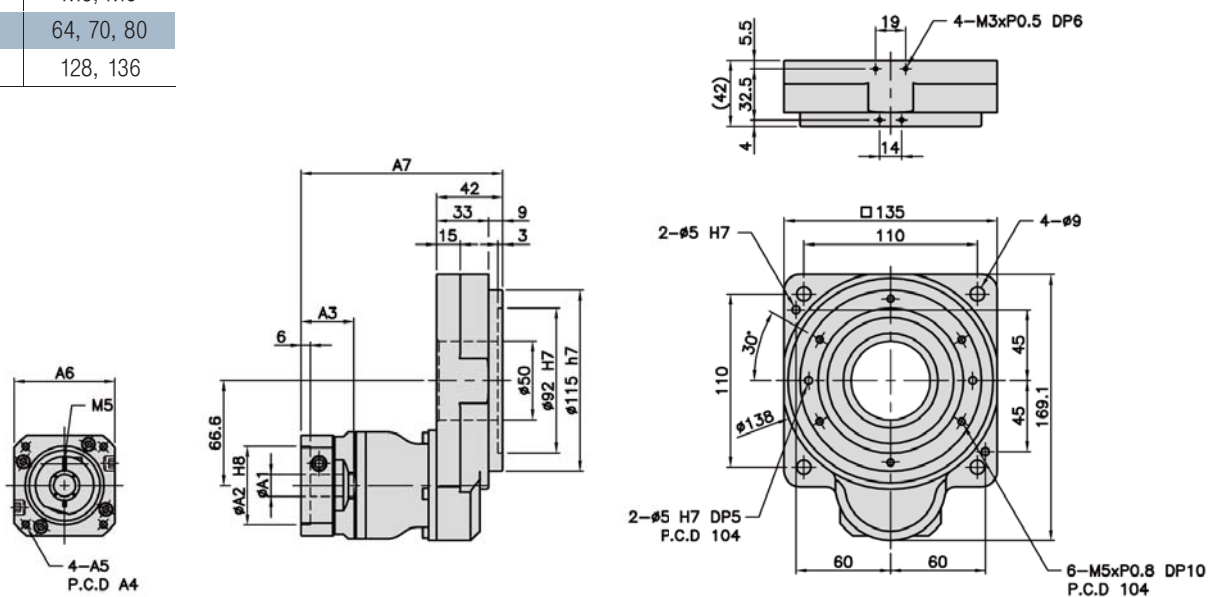
Unit : mm

Model Code	135C
A1	14 ~ 19
A2	50, 60, 70
A3	41
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80



Characteristic		Unit	KGT-135C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	43
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$2,772 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	2,200
Permissible Moment Load		Nm	45
Runout of Output Table Surface		mm	0.015
Runout of Output Table Inner / Outer Diameter		mm	0.015
Parallelism of Output Table		mm	0.025
Protection Class			IP 65
Weight		kg	3.13

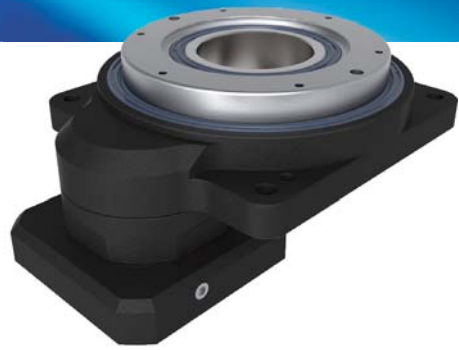
Model Code	135C
A1	14 ~ 19
A2	50, 60, 70
A3	33.5, 41.5
A4	70, 75, 90
A5	M5, M6
A6	64, 70, 80
A7	128, 136



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REDEFINING AT

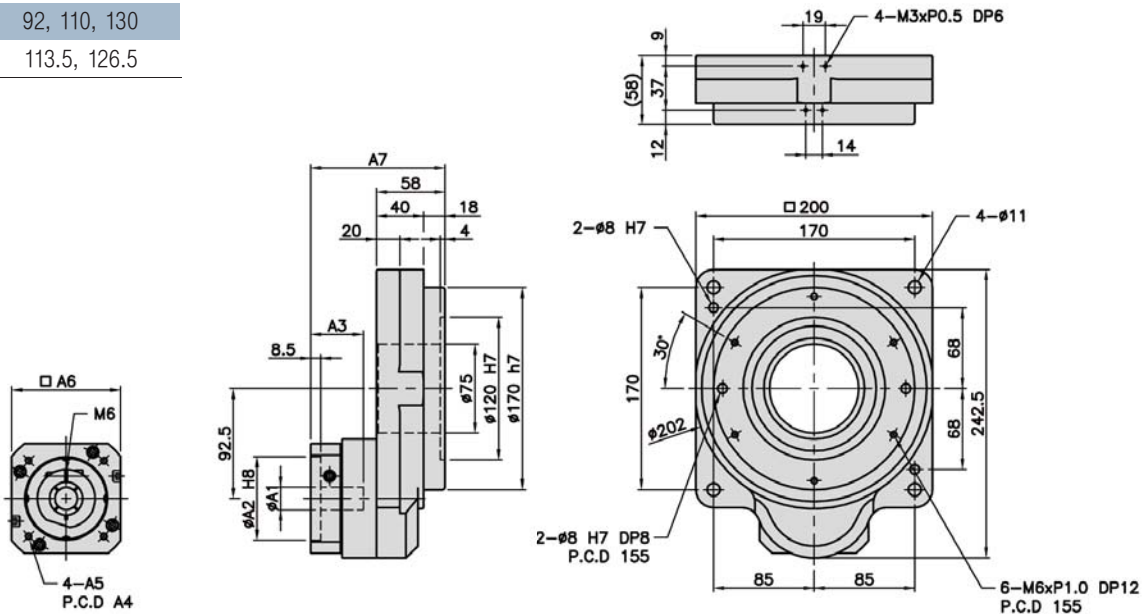
MODEL : KGT-200C

RATIO : 5, 10, 18 (1-Stage)



Unit : mm

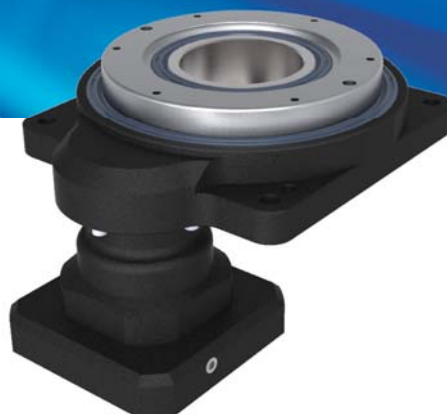
Model Code	200C
A1	19 ~ 24
A2	70, 80, 95, 110
A3	44.5, 57.5
A4	90, 100, 115, 145
A5	M6, M8
A6	92, 110, 130
A7	113.5, 126.5



Characteristic		Unit	KGT-200C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	142
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$27,619 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	4,000
Permissible Moment Load		Nm	80
Runout of Output Table Surface		mm	0.02
Runout of Output Table Inner / Outer Diameter		mm	0.02
Parallelism of Output Table		mm	0.03
Protection Class			IP 65
Weight		kg	8.66

MODEL : KGT-200C

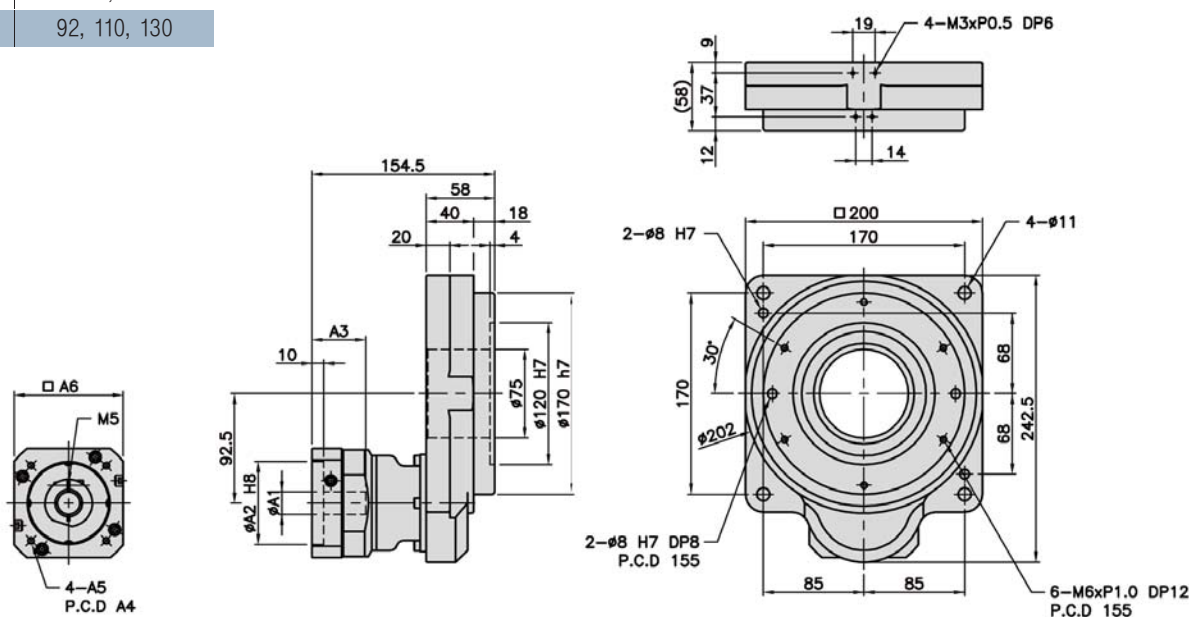
RATIO : 25, 50, 100 (2-Stage)



KGT

Unit : mm

Model Code	200C
A1	19
A2	70, 80, 95, 110
A3	45.5
A4	90, 100, 115, 145
A5	M6, M8
A6	92, 110, 130



Characteristic		Unit	KGT-200C
Output Table Supporting Bearing			Crossed Roller Bearing
Rated Output Torque	T_{2N}	Nm	142
Max. Output Torque Emergency Stop Torque	T_{2NOT}	Nm	2 Time of Rated Output Torque
Inertia Moment		kg.m ²	$27,619 \times 10^{-6}$
Output Permissible Speed	n_2	rpm	200
Lost Motion		arcmin	2 (0.033°)
Repetitive Positioning Accuracy		arcsec	±10 (0.0028°)
Permissible Thrust Load	F_{2aB}	N	4,000
Permissible Moment Load		Nm	80
Runout of Output Table Surface		mm	0.02
Runout of Output Table Inner / Outer Diameter		mm	0.02
Parallelism of Output Table		mm	0.03
Protection Class			IP 65
Weight		kg	10.3

Glossary

용어해설

Output Table Supporting Bearing

중공축 사용 베어링

This is the type of the bearing used for the output table.

Rated Output Torque [Nm]

감속기 허용 정격 토크이며 서보 적용시 허용 토크를 초과하지 않도록 한다.

This is the limit of mechanical strength of the speed reduction mechanism. Make sure that the applied torque, including the acceleration torque and load fluctuation, does not exceed the permissible torque.

Max. Output Torque / Emergency Stop Torque (T_{2NOT}) [Nm]

감속기의 최대허용 토크(T_{2NOT})를 지칭한다. 이 토크는 감속기 수명내 1,000번을 허용할 수 있으며 1,000번을 초과시 감속기 내부 부품이 손상될 수 있다.

LIMING SERVOBOX $T_{2NOT} = 3 T_{2B}$ (3 times of rated output torque)

The emergency stop torque T_{2NOT} is the maximum permissible torque at the gearbox output end and must not be reached more than 1000 times during the service life of the gearbox. It must never be exceeded to prevent inside parts from damage. LIMING GT $T_{2NOT} = 3 T_{2B}$ (3 times of rated output torque)

Inertia Moment [kg.m²]

감속기 구성부의 관성모멘트

This is the total sum of the inertial moment of the speed reduction mechanism converted to a moment on the output table.

Output Permissible Speed [rpm]

출력 허용 속도

This is the output table speed that can be tolerated by the mechanical strength of the speed reduction mechanism.

Lost Motion [arcmin]

임의 위치에서의 정방향의 위치 결정 정지점과 역방향의 위치 결정 정지점과의 위치 오차

This is the difference in stopped angles achieved when the output table is positioned to the same position in the forward and reverse directions.

Repetitive Positioning Accuracy [arcsec]

동일한 방향으로 동일한 위치를 반복해서 같은 조건으로 측정하여 나온 정도

This is a value indicating the degree of error that generates when positioning is performed repeatedly to the same position in the same direction.

Permissible Thrust Load [N]

축하중을 받는 출력 테이블의 스러스트 하중 허용 값

This is the permissible value of thrust load applied to the output table in the axial direction.

Permissible Moment Load [Nm]

출력 테이블에 발생하는 편심의 모멘트 하중 허용 값

When a load is applied to a position away from the center of the output table, the output table receives a tilting force. The permissible moment load refers to the permissible value of moment load calculated by the eccentricity from the center by the applied load.

Runout of Output Table Surface [mm]

무부하 운전시 출력단의 평면 조립면 편차 최대량

This is the max. value of runout of the installation surface of the output table when the output table is rotated under no load.

Runout of Output Table Inner / Outer Diameter [mm]

무부하 운전시 출력 내경부와 외경부의 편차 최대값

This is the max. value of runout of the inner diameter or outer diameter of the table when the output table is rotated under no load.

Parallelism of Output Table [mm]

감속기 고정면과 출력 테이블 조립면의 기울기 정도

This is the inclination of the installation surface of the output table compared with the actuator installation surface on the equipment side.

Protection Class

방진, 방수 보호 등급 IP65 구조

Based on IP65, dustresistance and waterproofing regarding the degree of protection of the device is classified using a grade.

Weight [kg]

감속기 무게

Product weight.

Parallelism & Runout

KGT

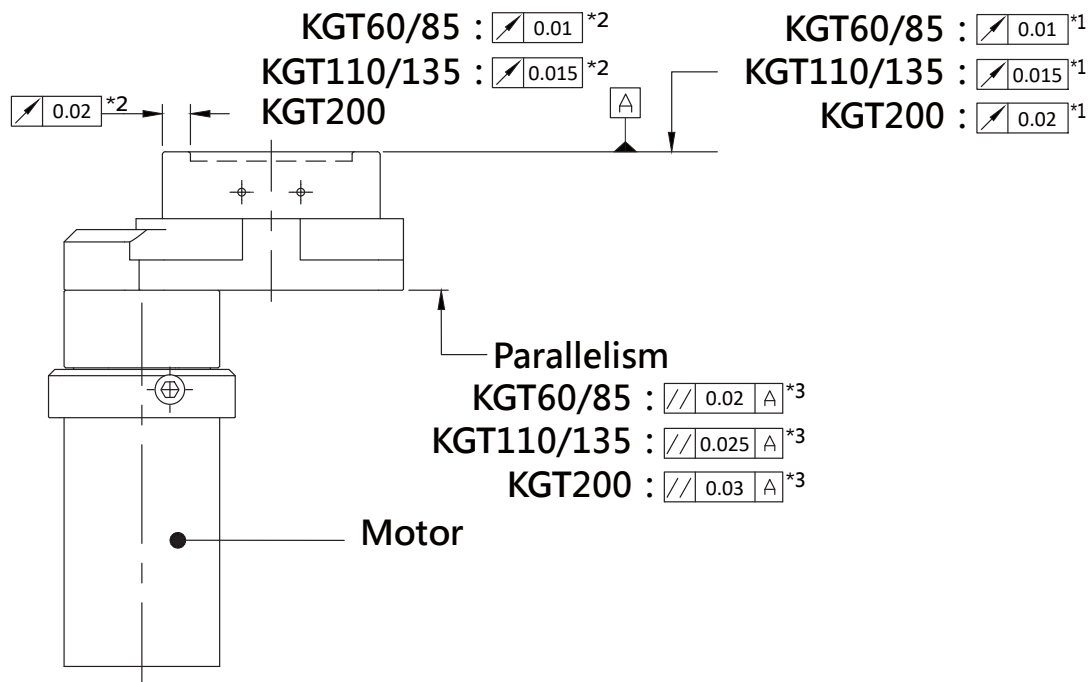
KGT

KST

KHY

KWE

KGT60/KGT85/KGT110/KGT135/KGT200



* 1 Runout of output table surface

* 2 Runout of output table inner and outer diameter

* 3 Parallelism of output table (against the installation surface)

*1. 무부하 회전시 출력 테이블 장착면의 흔들림(진동) 최대 값

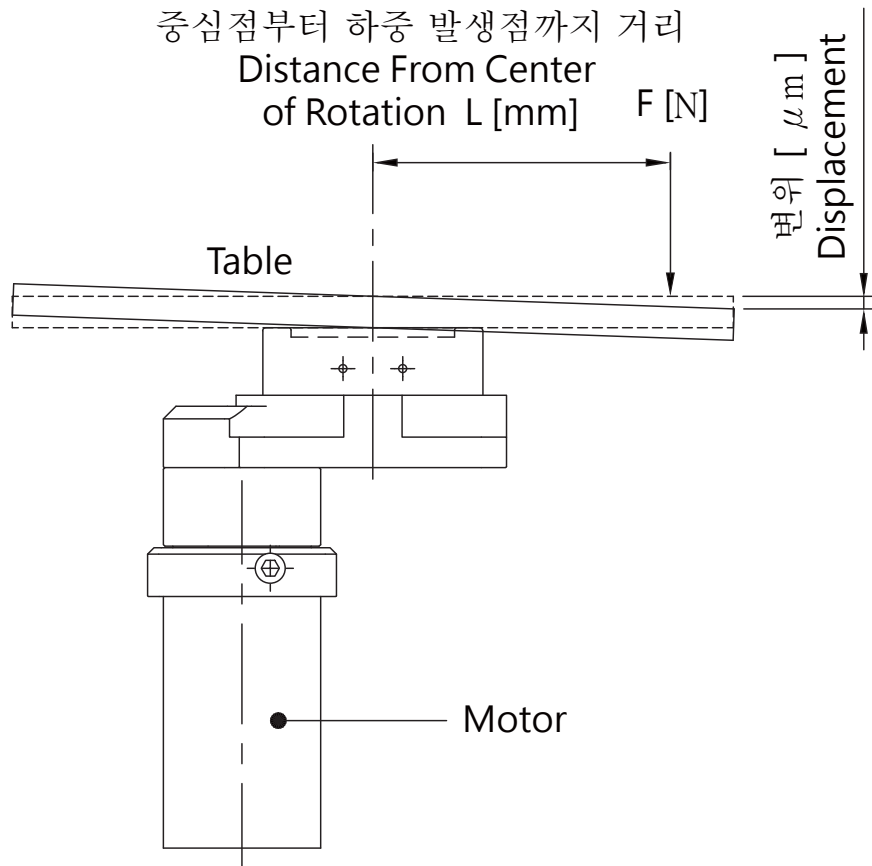
*2. 무부하 회전시 출력 테이블 내/외경의 흔들림(진동) 최대 값.

*3. 감속기 설치면과 출력 테이블 장착면에 대한 평행도(설치면 기준)

Runout of Output Table Surface: This is the max. value of runout of the installation surface of the output table when the output table is rotated under no load.

Runout of Output Table Inner / Outer Diameter: This is the max. value of runout of the inner diameter or outer diameter of the table when the output table is rotated under no load.

Parallelism of Output Table: This is the inclination of the installation surface of the output table compared with the actuator installation surface on the equipment side.



$$\text{Moment Load [Nm]} = 0.001 \times F(\text{N}) \times L(\text{mm})$$

모멘트 하중에 따른 변위량 (참고치)

- * 출력테이블은 모멘트 하중을 받을때 변위가 발생합니다.
- ° 그래프의 변위량은 모멘트 하중을 한방향으로 작용했을때 출력 테이블의 회전 중심으로부터 거리(L)만큼 떨어진 위치에서의 변위입니다.
- * 모멘트 하중이 정,역의 양방향으로 작용할 경우 변위량은 약 2배정도 발생합니다.

Displacement by Moment Load (Reference Value)

The output table will be displaced when it receives the moment load.

The graph plots the table displacement that occurs at distance L from the rotation center of the output table when a given moment load is applied in the negative direction.

The displacement becomes approximately twofold when the moment load is applied in both the positive and negative directions.

Applications

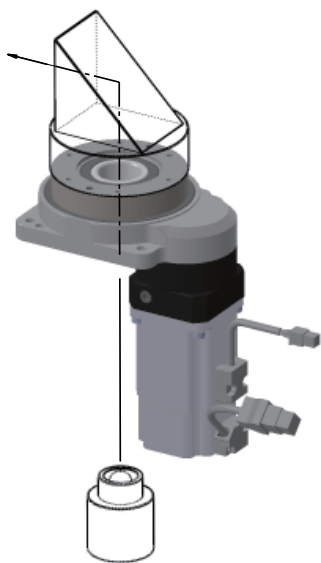
○ 모멘트 하중을 요하는 구조



○ 고정밀도의 위치 결정



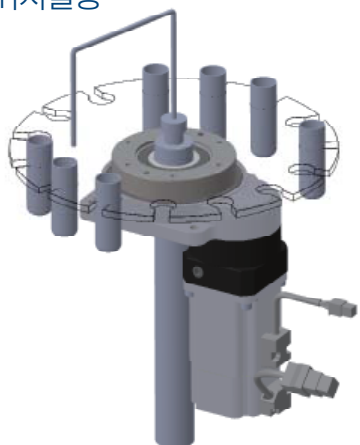
○ Hollow Hole을 활용한 광학구조



○ Hollow Hole을 활용한 Air 흡착구조



○ Hollow Hole을 활용한 고정밀도 위치결정



○ 모멘트 하중의 변위 구조

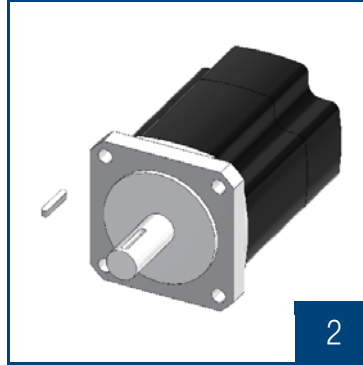


Hollow Rotary Reducer and Motor Mounting Instructions



1

모터와 기어박스의 사이즈를 확인 후 마운팅 표면을 깨끗이 닦아 주세요.
Confirm the motor, and gearbox size.
Clean up the mounting surface.



2

모터 샤프트가 $\phi 35$ 이하일 경우 모터의 키를 제거합니다.
Remove the motor key if the diameter of motor shaft is under $\phi 35$.



3

모터의 사이즈를 확인하시고 필요시에는 부싱을 삽입하세요.
Check motor shaft size and insert bushing into input bore if necessary.



4

아답터 플레이트의 스크류 플러그를 제거하신 후 세트컬러의 볼트를 회전시켜주세요.
Remove the plug on the adapter plate. Rotate the set collar till the bolt is line up.



5

모터와 기어박스를 연결합니다.
Put the motor into the gearbox vertically.



6

토크 렌치를 사용하여 마운팅 볼트를 조여 주세요.
Tighten the mounting bolt in 1~4 order with torque wrench.



7

토크 렌치를 사용하여 세트컬러의 볼트를 조여 주세요.
Tighten the set collar bolt with torque wrench.



8

스크류 플러그를 조여 주세요.
Tighten back the screw plug.

1. 주의할 점은 반드시 모터를 먼저 취부한 이후에 세트컬러를 조여 주셔야 합니다.
To be sure to tighten motor first and then to tighten the set collar on motor shaft.
2. 6번 단계와 7번 단계순으로 조립해 주시길 바랍니다.
Please assembly in order according to above steps, especially for step 6 and step 7.