

Zero-Backlash high precision reducer

DynaStation® GTBseries



Task of Servo positioning

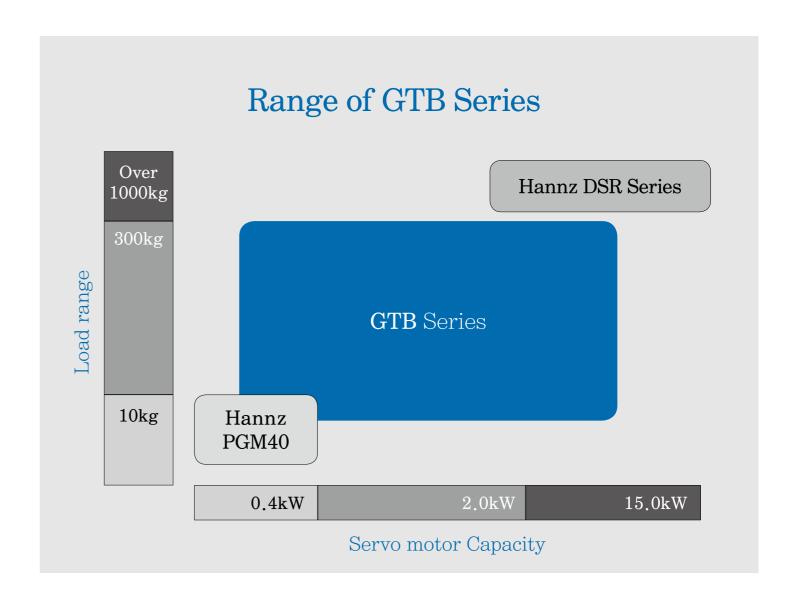
- Minimize backlash of gear head
- Need solid drive system
- Selection of reduction ratio

GTB Series

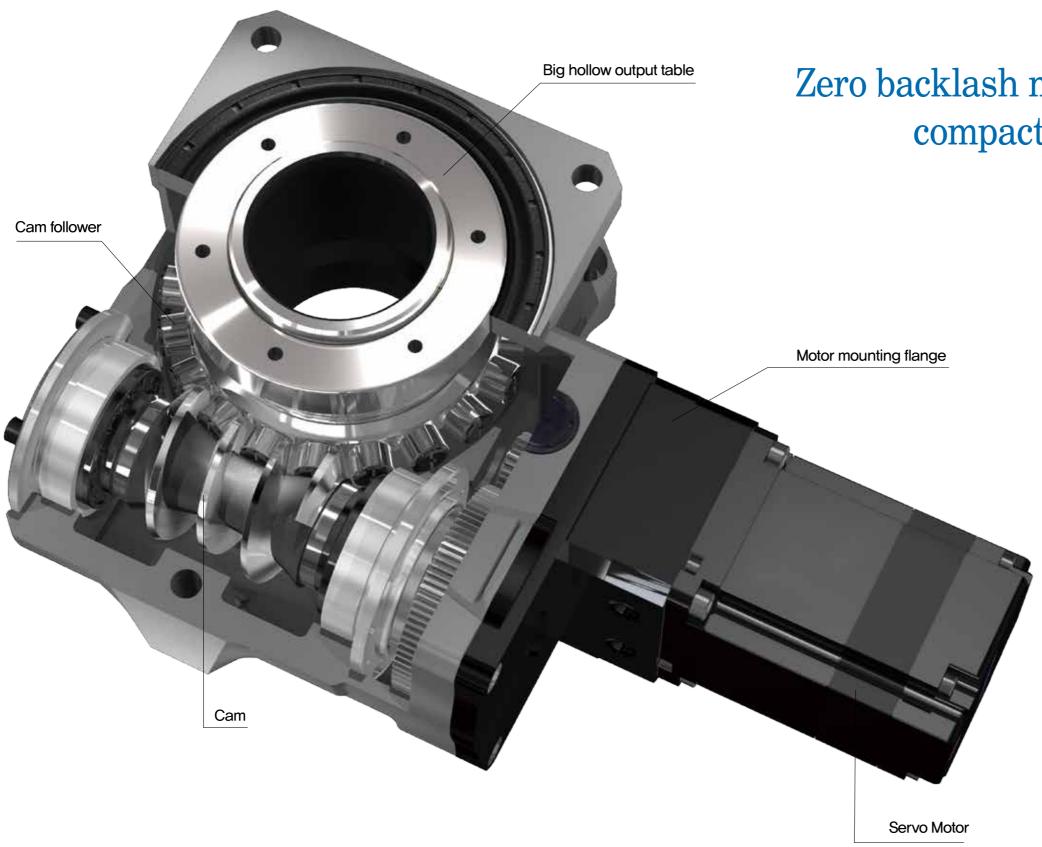


Dynastation GTB series is a high precision zero backlash reducer for designed by solving the problems of automation field.





GTB series



Zero backlash mechanism without abrasion compact high-strength body

Roller gear cam reducer

The movement of the output is generated by the roller gear cam mechanism without backlash. with the preload, the roller gear cam makes a rolling contact, so it has zero backlash transfer characteristics as well as wear free and long term stable performance.

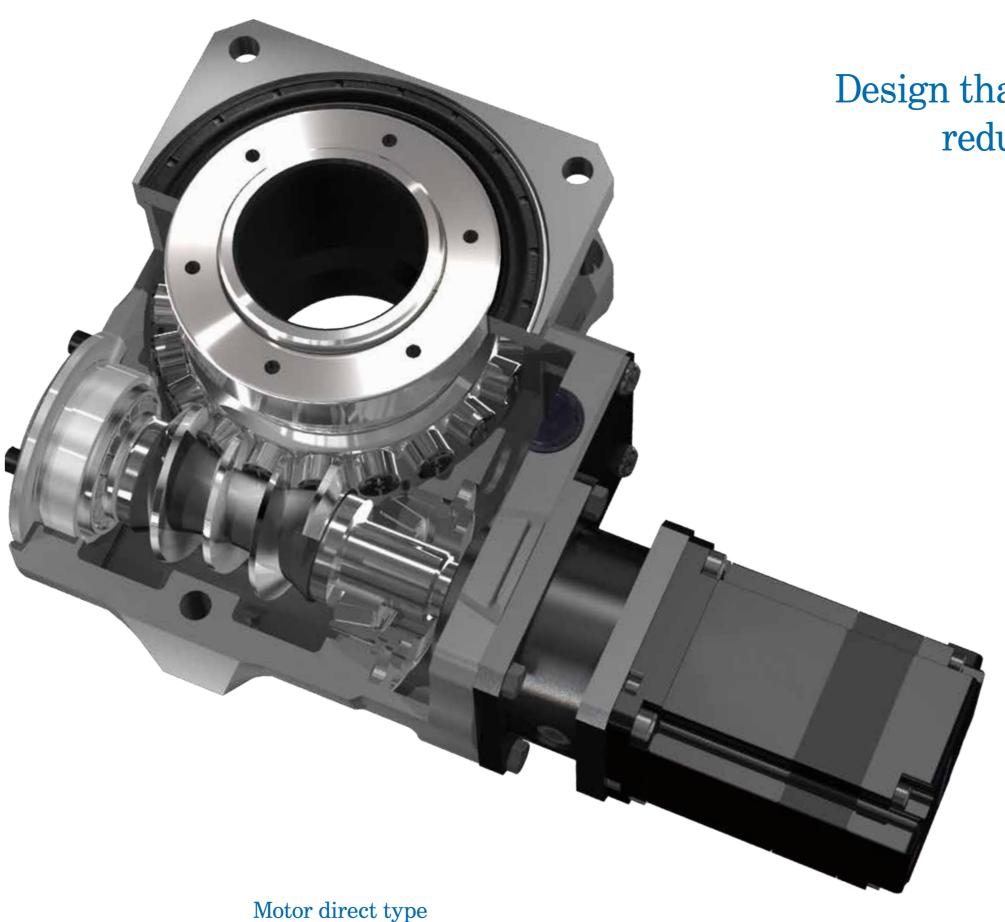


Black finish high-strength body

The housing achieves high rigidity and compact deign by stress optimized design and high strength precision casting. The surface has a special black finish with excellent corrosion resistance.

High ratio type

GTB series



Design that can cope with two type of reduction characteristics



Reduction ratio select system (PAT.P)

Product selection is available in two types: high ratio type for high torque and motor direct type for high accuracy.



Stable vertical and plane installation

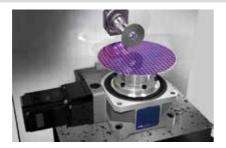
The product can be installed in any direction, either plane or vertical. Except for the motor direction, the installable surface is arranged in all the other direction, so it can be used for various installation methods. In addition, since the front and rear mounting positions are the same, it is possible to arrange the position of the motor and the position of the output hole variously.

■ Line up/Specifications (Refer to P16 ~ for dimension)

Semiconductor/LCD



Glass polishing machine



Wafer rotation axis

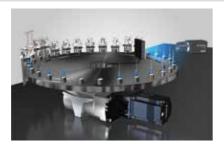


Polarizing film roll transport

Pharmaceutical/Medical device



Filling machine

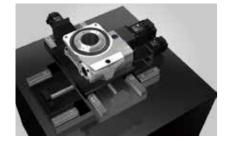


Needle assembly inspection

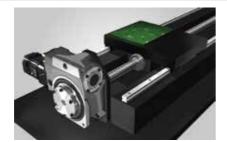


Visual inspection camera synchronous operation

Electric/Electronic



 $X^{\scriptscriptstyle\bullet}Y^{\scriptscriptstyle\bullet}\,\theta\,\mathrm{inspection\,\,stage}$



Ball screw drive



Substrate inspection device

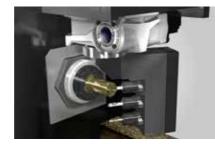
Automotive/Machine tool



Assembly quality inspection table



Robot sub drive part



Lathe machine tool B-axis

Packaging, molding



Rotary packaging machine



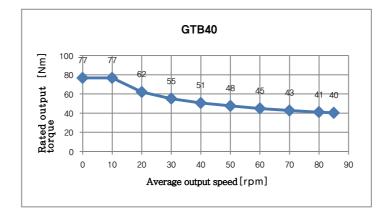
Molding/Printing

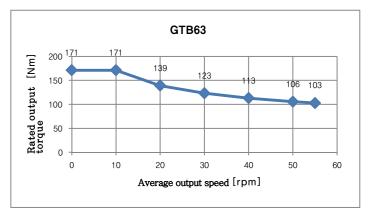


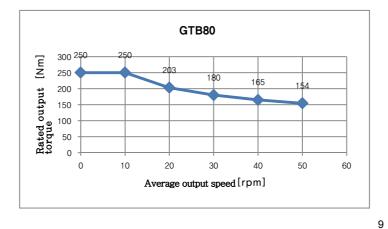
Colgate forming rotary part

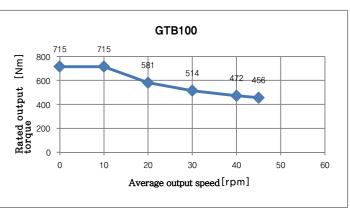
Model size		GTI	B40	GT	B63	GTI	380	GTE	3100
Center distance	[mm]	4	.0	6	3	80		100	
Output hollow diameter	[mm]	φ	25	φ	50	φ	75	φ	85
Reduction ratio	i	45	15	60	20	60	20	60	20
Static rated torque	Ts[N·m]	17	76	4	11	60	00	13	41
Start-stop limit torque	Tu[N•m]	9	4	2	10	30)7	88	30
Allowable average output speed	nm max[rpm]	86	86	55	55	50	50	45	45
Allowable maximum output speed	nu max[rpm]	100	100	70	70	60	60	50	50
Moment of inertia	J[kg•m²×10-4]	0.17	0.263	0.4	0.871	1.52	3.214	4.08	10.39
Backlash	[sec.]	25	0	15	0	15	0	10	0
Indexing accuracy	arc•sec arc•sec Max.	90 60		4	0	40			
Repeatability	arc•sec arc•sec Max.	±	10	<u>+</u>	±7 ±5		:5	±5	
Permissible axial load	Pa max[N]	11	00	18	50	36	32	41	00
Permissible radial load	Pr max[N]	74	740		00	3100		3420	
Permissible moment load	M _{mean} max[N•m]	4	40		5	22	26	3	13
Average efficiency	%	80	90	80	90	80	90	80	90
Lubrication		Gre	ease	Gre	ease	Grease		Gre	ease
Weight (without motor)	[kg]	3.5	3.3	6.2	5.9	14.1	12.9	25.2	24.3

■ Rated torque Table

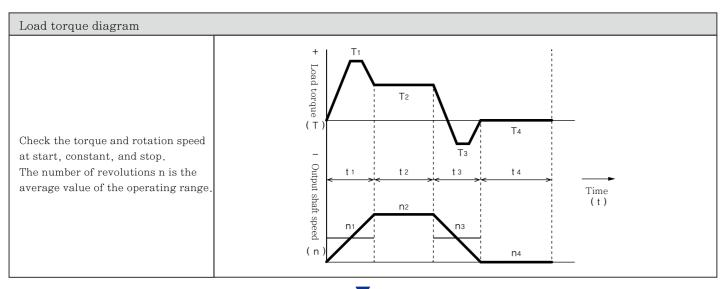








Please contact us by filling out the request form after confirming the following information.

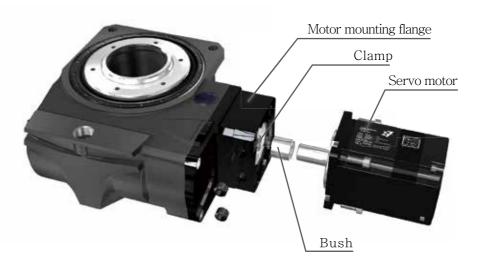


Condition requirement	
Calculate the average load torque from the load torque diagram.	$T_{mean} = \sqrt[\frac{10}{3}]{\frac{n_1 \cdot t_1 \cdot T_1 ^{\frac{10}{3}} + n_2 \cdot t_2 \cdot T_2 ^{\frac{10}{3}} + \dots + n_n \cdot t_n \cdot T_n ^{\frac{10}{3}}}{n_1 \cdot t_1 + n_2 \cdot t_2 + \dots + n_n \cdot t_n}} $ (N·m)
Average output speed	$n_{mean} = \frac{n_1 \cdot t_1 + n_2 \cdot t_2 + \dots + n_n \cdot t_n}{t_1 + t_2 + \dots + t_n} \text{ (rpm)}$
Maximum output speed	$n_{max(ext{maximum output speed})}(ext{rpm})$

	T_{mean} < Rated output torque $T_{op}(\mathbf{N} \cdot \mathbf{m})$
The size that satisfies the three conditions on the right side is selected by referring to the rated	n_{mean} < Allowable average output speed $nm_{max}(rpm)$
table.	n_{max} <allowable <math="" maximum="" output="" speed="">nu_{max}(rpm)</allowable>

Ability check	Ability check					
	$T_{_I}$ <기동 정지 시 상한 토크 $T_{_{\mathrm{II}}}(N\cdotm)$					
Start • Stop torpue check	$T_{_3}$ <기동 정지 시 상한 토크 $\mathrm{T_u(N\cdot m)}$					
	Conditions	f				
Factor based on anarcting anditions	smooth operation with no impact load $1.0 \sim 1.2$					
Factor based on operating conditions	normal operation 1.2~1.5					
	peration with impact load	1.5 ~ 3.0				
Expected life time	$L_h=12000\cdot \left(\frac{T_{op}}{f:T_{mean}}\right)^{\frac{10}{3}} \text{(hours)}$					

Completed if the requirements are met



Supports all kinds of servo motor Mitsubishi Yaskawa Sanyo Keyence Panasonic Fanuc

Туре	Size	_	MI code (motor mounting interface)	_	Installation position	_	Option
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GTB GGA10 Ordering examples

> JGA10 TB

Т	Size	MI Code (motor mounting interface : 5digits)				
Type	Size	Reduction ratio (2digits)		Motor (3digits)		
	40	45 (high ratio)	FG			
		15 (motor direct)	FD			
	63	60 (high ratio)	GG			
GTB		20 (motor direct)	GD	Please specify a code suitable for the motor to		
UID UID	80	60 (high ratio)	HG	be installed.		
		20 (motor direct)	HD	It is determined by the servo motor(refer to the next page).		
	100	60 (high ratio)	JG	1.000		
	100	20 (motor direct)	JD			

	Installation position					
Plane	Н					
Vertical	٧					
Etc	Z	Incline installation and product rotate in any direction.				

	Option					
Output table surface pin hole	Т	Table surface 1ea refer to dimension drawing				
Housing pin hole	В	Top 2ea+Bottom 2ea refer to dimension drawing				
Oil lubrication specification	Q	Please contact us for details.				
Special order	x	Other specifications can be customized (motors other than those listed in the list can also be installed)				

- ▲ caution Be sure to install a servo motor with brake type so that the table can safely stop at power failure if torque is applied due to gravity. etc.
 - When selecting the motor, please make sure to satisfy all the requirements such as allowable torque motor driver regeneration resistance specification.
 - Read the manual procedures when assembling the motor.
 - Please contact us for further details.

GTB40 Motor Interface Code



Ratio 1/45

0.15

FGA0

Make Seri		Model	mm	Output KW	MI Code	Attached bush
Keyence	SV	SV-M010	40	0.10	FGA0	-
Keyence	SV2	SV2-M010	40	0.10	FGA0	-
Mitsubishi	J3	HF-KP13	40	0.10	FGA0	-
Mitsubishi	J3	HF-MP13	40	0.10	FGA0	-
Mitsubishi	J4	HG-KR13	40	0.10	FGA0	-
Mitsubishi	J4	HG-MR13	40	0.10	FGA0	-
Panasonic	A5	MSMD01	38	0.10	FGB0	-
Panasonic	A5	MSME01	38	0.10	FGB0	-
Panasonic	A6	MHMF01	40	0.10	FGA0	-
Panasonic	A6	MSMF01	38	0.10	FGB0	
Sanyo	R2	R2AA04010F	40	0.10	FGA0	-
Yaskawa	Σ5	SGMAV-01A	40	0.10	FGA0	
Yaskawa	Σ5	SGMAV-C2A	40	0.15	FGA0	-
Yaskawa	Σ5	SGMJV-01A	40	0.10	FGA0	-
Yaskawa	Σ5	SGMJV-C2A	40	0.15	FGA0	-
Yaskawa	Σ7	SGM7A-01A	40	0.10	FGA0	-
Yaskawa	Σ7	SGM7A-C2A	40	0.15	FGA0	-

SGM7J-01A

SGM7J-C2A

Yaskawa



Ratio **1/15**

*In the direct type, the motor is mounted without bush.

Maker/		Model	0	Output	MI
Seri	ies	Model	mm	KW	Code
Fanuc	β	βiS0.5/6000	60	0.35	FDE10
Fanuc	β	βiS1/6000	60	0.50	FDA10
Keyence	SV	SV-M020	60	0.20	FDA10
Keyence	SV	SV-M040	60	0.40	FDA10
Keyence	SV2	SV2-M020	60	0.20	FDA10
Keyence	SV2	SV2-M040	60	0.40	FDA10
Mitsubishi	J3	HF-KP23	60	0.20	FDA10
Mitsubishi	J3	HF-KP43	60	0.40	FDA10
Mitsubishi	J3	HF-MP23	60	0.20	FDA10
Mitsubishi	J3	HF-MP43	60	0.40	FDA10
Mitsubishi	J4	HG-KR23	60	0.20	FDA10
Mitsubishi	J4	HG-KR43	60	0.40	FDA10
Mitsubishi	J4	HG-MR23	60	0.20	FDA10
Mitsubishi	J4	HG-MR43	60	0.40	FDA10
Panasonic	A5	MHMD02	60	0.20	FDC10
Panasonic	A5	MHMD04	60	0.40	FDD10
Panasonic	A5	MSMD02	60	0.20	FDC10
Panasonic	A5	MSMD04	60	0.40	FDD10
Panasonic	A5	MSME02	60	0.20	FDC10
Panasonic	A5	MSME04	60	0.40	FDD10
Panasonic	A6	MHMF02	60	0.20	FDC10
Panasonic	A6	MHMF04	60	0.40	FDD10
Panasonic	A6	MSMF02	60	0.20	FDC10
Panasonic	A6	MSMF04	60	0.40	FDD10
Sanyo	R2	R2AA06020F	60	0.20	FDA10
Sanyo	R2	R2AA06040F	60	0.40	FDA10
Sanyo	R2	R2AA06040H	60	0.40	FDA10
Yaskawa	Σ5	SGMAV-02A	60	0.20	FDA10
Yaskawa	Σ5	SGMAV-04A	60	0.40	FDA10
Yaskawa	Σ5	SGMAV-06A	60	0.55	FDB10
Yaskawa	Σ5	SGMJV-02A	60	0.20	FDA10
Yaskawa	Σ5	SGMJV-04A	60	0.40	FDA10
Yaskawa	Σ5	SGMJV-06A	60	0.60	FDB10
Yaskawa	Σ7	SGM7A-02A	60	0.20	FDA10
Yaskawa	Σ7	SGM7A-04A	60	0.40	FDA10
Yaskawa	Σ7	SGM7A-06A	60	0.60	FDB10
Yaskawa	Σ7	SGM7J-02A	60	0.20	FDA10
Yaskawa	Σ7	SGM7J-04A	60	0.40	FDA10
Yaskawa	Σ7	SGM7J-06A	60	0.60	FDB10

GTB63 Motor Interface Code



Ratio **1/60**

wan	er/	Model		Output	MI	Attache
Serie	s	Model	mm	KW	Code	bush
Fanuc	β	β iS05/6000	60	0.35	GGA12	0
Fanuc	β	β iS1/6000	60	0.50	GGA10	-
Keyence	SV	SV-M020	60	0.20	GGA10	-
Keyence	SV	SV-M040	60	0.40	GGA10	-
Keyence	SV2	SV2-M020	60	0.20	GGA10	-
Keyence	SV2	SV2-M040	60	0.40	GGA10	-
Mitsubishi	J3	HF-KP23	60	0.20	GGA10	-
Mitsubishi	J3	HF-KP43	60	0.40	GGA10	-
Mitsubishi	J3	HF-MP23	60	0.20	GGA10	-
Mitsubishi	J3	HF-MP43	60	0.40	GGA10	-
Mitsubishi	J4	HG-KR23	60	0.20	GGA10	-
Mitsubishi	J4	HG-KR43	60	0.40	GGA10	-
Mitsubishi	J4	HG-MR23	60	0.20	GGA10	-
Mitsubishi	J4	HG-MR43	60	0.40	GGA10	-
Panasonic	A5	MHMD02	60	0.20	GGB11	0
Panasonic	A5	MHMD04	60	0.40	GGB10	-
Panasonic	A5	MSMD02	60	0.20	GGB11	0
Panasonic	A5	MSMD04	60	0.40	GGB10	-
Panasonic	A5	MSME02	60	0.20	GGB11	0
Panasonic	A5	MSME04	60	0.40	GGB10	-
Panasonic	A6	MHMF02	60	0.20	GGB11	0
Panasonic	A6	MHMF04	60	0.40	GGB10	-
Panasonic	A6	MSMF02	60	0.20	GGB11	0
Panasonic	A6	MSMF04	60	0.40	GGB10	-
Sanyo	R2	R2AA06020F	60	0.20	GGA10	-
Sanyo	R2	R2AA06040F	60	0.40	GGA10	-
Sanyo	R2	R2AA06040H	60	0.40	GGA10	-
Yaskawa	Σ5	SGMAV-02A	60	0.20	GGA10	-
Yaskawa	Σ5	SGMAV-04A	60	0.40	GGA10	-
Yaskawa	Σ5	SGMAV-06A	60	0.55	GGA10	-
Yaskawa	Σ5	SGMJV-02A	60	0.20	GGA10	-
Yaskawa	Σ5	SGMJV-04A	60	0.40	GGA10	-
Yaskawa	Σ5	SGMJV-06A	60	0.60	GGA10	-
Yaskawa	Σ7	SGM7A-02A	60	0.20	GGA10	-
Yaskawa	Σ7	SGM7A-04A	60	0.40	GGA10	-
Yaskawa	Σ7	SGM7A-06A	60	0.60	GGA10	-
Yaskawa	Σ7	SGM7J-02A	60	0.20	GGA10	-
Yaskawa	Σ7	SGM7J-04A	60	0.40	GGA10	-
Yaskawa	Σ7	SGM7J-06A	60	0.60	GGA10	_



Ratio **1/20**

*In the direct type, the motor

		200	is mounted without bush.				
36.1	,			0			
Mak		Model	_	Output	MI		
Seri		151 (5000	mm	KW	Code		
Fanuc	α	αiF1/5000	90	0.50	GDK10		
Fanuc	α	αiF2/5000	90	0.75	GDK10		
Fanuc	α	αiS2/5000	90	0.75	GDK10		
Fanuc	α	αiS2/6000	90	1.00	GDK10		
Fanuc	β	βiS1/6000	60	0.50	GDA10		
Fanuc	β	βiS2/4000	90	0.50	GDK10		
Keyence	SV	SV-M040	60	0.40	GDA10		
Keyence	SV	SV-M075	80	0.75	GDB10		
Keyence	SV2	SV2-M040	60	0.40	GDA10		
Keyence	SV2	SV2-M075	80	0.75	GDB10		
Mitsubishi	J3	HF-KP43	60	0.40	GDA10		
Mitsubishi	J3	HF-KP73	80	0.75	GDB10		
Mitsubishi	J3	HF-MP43	60	0.40	GDA10		
Mitsubishi	J3	HF-MP73	80	0.75	GDB10		
Mitsubishi	J4	HG-KR43	60	0.40	GDA10		
Mitsubishi	J4	HG-KR73	80	0.75	GDB10		
Mitsubishi	J4	HG-MR43	60	0.40	GDA10		
Mitsubishi	J4	HG-MR73	80	0.75	GDB10		
Mitsubishi	A5	MHMD04	60	0.40	GDF10		
Mitsubishi	A5	MHMD08	80	0.75	GDG10		
Mitsubishi	A5	MSMD04	60	0.40	GDF10		
Mitsubishi	A5	MSMD08	80	0.75	GDG10		
Mitsubishi	A5	MSME04	60	0.40	GDF10		
Mitsubishi	A5	MSME08	80	0.75	GDG10		
Mitsubishi	A6	MHMF04	60	0.40	GDF10		
Mitsubishi	A6	MHMF08	80	0.75	GDG10		
Mitsubishi	A6	MHMF09	80	1.00	GDG10		
Mitsubishi	A6	MQMF04	80	0.40	GDH10		
Mitsubishi	A6	MSMF04	60	0.40	GDF10		
Mitsubishi	A6	MSMF08	80	0.75	GDG10		
Mitsubishi	A6	MSMF09	80	1.00	GDG10		
Sanyo	R2	R2AA06040F	60	0.40	GDA10		
Sanyo	R2	R2AA06040H	60	0.40	GDA10		
Sanyo	R2	R2AA08075F	80	0.75	GDJ10		
Sanyo	R2	R2AAB8075F	86	0.75	GDD10		
Sanyo	R2	R2AAB8100H	86	1.00	GDD10		
Yaskawa	Σ5	SGMAV-04A	60	0.40	GDA10		
Yaskawa	Σ5	SGMAV-06A	60	0.55	GDA10		
Yaskawa	Σ5	SGMAV-08A	80	0.75	GDB10		
Yaskawa	Σ5	SGMAV-10A	80	1.00	GDB10		
Yaskawa	Σ5	SGMGV-03A	90	0.30	GDC10		
Yaskawa	Σ5	SGMGV-05A	90	0.45	GDD10		
Yaskawa	Σ5	SGMJV-04A	60	0.40	GDA10		
Yaskawa	Σ5	SGMJV-06A	60	0.60	GDA10		
Yaskawa	Σ5	SGMJV-08A	80	0.75	GDB10		
Yaskawa	Σ7	SGM7A-04A	60	0.40	GDA10		
Yaskawa	Σ7	SGM7A-06A	60	0.60	GDA10		
Yaskawa	Σ7	SGM7A-08A	80	0.75	GDB10		
Yaskawa	Σ7	SGM7A-10A	80	1.00	GDB10		
Yaskawa	Σ7	SGM7G-03A	90	0.30	GDE10		
Yaskawa	Σ7	SGM7G-05A	90	0.45	GDD10		
Yaskawa	Σ7	SGM7J-04A	60	0.40	GDA10		
Yaskawa	Σ7	SGM7J-06A	60	0.60	GDA10		
Yaskawa	Σ7	SGM7J-08A	80	0.75	GDB10		

13

Model

 $\alpha\,iF2/5000$

 α iF4/4000

 α iF8/3000

 $\alpha\,\text{iS2/5000}$

αiS2/6000

ß iS2/4000

β iS8/3000

ß iS12/3000

SV-M100A

SV-M150A

SV-M200A

SV2-M100A

SV2-M150A

SV2-M200A

HF-SP51

HF-SP52

HF-SP81

HF-SP102

HF-SP152

HG-SR51

HG-SR52

HG-SR81

HG-SR102

HG-SR152

MDME102

MDME152

MDME202

MDMF102

MDMF152

MDMF202

R2AA13050H

R2AA13120D

SGMGV-03A

SGMGV-09A

SGMGV-20A

SGMSV-10A

SGMSV-15A

SGMSV-20A

SGMSV-25A

SGM7A-20A

SGM7A-25A

SGM7G-03A

SGM7G-05A

SGM7G-09A

SGM7G-20A

SGM7G-13A 130

SGM7A-15A 100

R2AA13050D 130

R2AA13120B 130

R2AA13120L 130

R2AA13180H 130

GTB80 Motor Interface Code



Σ7

Yaskawa

SGM7J-08A 80

Ratio **1/60**

Mole	07/		0	Output	MI	Attached
Maker/ Series		Model	mm	KW	Code	Bush
		:54 /5000				
Fanuc	α	α iF1/5000	90	0.50	HGB13	0
Fanuc	α	α iF2/5000	90	0.75	HGB13	0
Fanuc	α	αiS2/5000	90	0.75	HGB13	0
Fanuc	α	αiS2/6000	90	1.00	HGB13	0
Fanuc	β	β iS2/4000	90	0.50	HGB13	0
Keyence	SV	SV-M075	80	0.75	HGA10	-
Keyence	SV2	SV2-M075	80	0.75	HGA10	-
Mitsubishi	J3	HF-KP73	80	0.75	HGA10	-
Mitsubishi	J3	HF-MP73	80	0.75	HGA10	-
Mitsubishi	J4	HG-KR73	80	0.75	HGA10	-
Mitsubishi	J4	HG-MR73	80	0.75	HGA10	-
Panasonic	A5	MHMD08	80	0.75	HGC10	-
Panasonic	A5	MSMD08	80	0.75	HGC10	-
Panasonic	A5	MSME08	80	0.75	HGC10	-
Panasonic	A6	MHMF08	80	0.75	HGC10	-
Panasonic	A6	MHMF09	80	1.00	HGC10	-
Panasonic	A6	MSMF08	80	0.75	HGC10	-
Panasonic	A6	MSMF09	80	1.00	HGC10	-
Sanyo	R2	R2AA08075F	80	0.75	HGA12	0
Sanyo	R2	R2AAB8075F	86	0.75	HGB12	0
Sanyo	R2	R2AAB8100F	86	1.00	HGB12	0
Sanyo	R2	R2AAB8100H	86	1.00	HGB12	0
Yaskawa	Σ5	SGMAV-08A	80	0.75	HGA10	-
Yaskawa	Σ5	SGMAV-10A	80	1.00	HGA10	-
Yaskawa	Σ5	SGMGV-03A	90	0.30	HGB11	0
Yaskawa	Σ5	SGMGV-05A	90	0.45	HGB12	0
Yaskawa	Σ5	SGMJV-08A	80	0.75	HGA10	-
Yaskawa	Σ7	SGM7A-08A	80	0.75	HGA10	-

1.00

0.45

0.75

HGB12

HGA10



Ratio **1/20**

*In the direct type, the motor is mounted without bush.

М	aker/			Output	MI
S	eries	Model	mm	ĸw	Code
Fanuc	α	αiF1/5000	90	0.50	HDL10
Fanuc	α	αiF2/5000	90	0.75	HDL10
Fanuc	α	αiS2/5000	90	0.75	HDL10
Fanuc	α	αiS2/6000	90	1.00	HDL10
Fanuc	β	βiS2/4000	90	0.50	HDL10
Keyence	SV	SV-M075	80	0.75	HDA10
Keyence	SV2	SV2-M075	80	0.75	HDA10
Mitsubish	i J3	HF-KP73	80	0.75	HDA10
Mitsubishi	i J3	HF-MP73	80	0.75	HDA10
Mitsubishi	i J4	HG-KR73	80	0.75	HDA10
Mitsubishi	i J4	HG-MR73	80	0.75	HDA10
Panasonio	A5	MHMD08	80	0.75	HDE10
Panasonio	A5	MSMD08	80	0.75	HDE10
Panasonio	A5	MSME08	80	0.75	HDE10
Panasonio	A5	MSME10	100	1.00	HDF10
Panasonio	A5	MSME15	100	1.50	HDG10
Panasonio	A5	MSME20	100	2.00	HDG10
Panasonio	A6	MHMF08	80	0.75	HDE10
Panasonio	A6	MHMF09	80	1.00	HDE10
Panasonio	A6	MSMF08	80	0.75	HDE10
Panasonio	A6	MSMF09	80	1.00	HDE10
Panasonio	A6	MSMF10	100	1.00	HDF10
Panasonio	A6	MSMF15	100	1.50	HDG10
Panasonio	A6	MSMF20	100	2.00	HDG10
Sanyo	Q1	Q1AA10100D	100	1.00	HDK10
Sanyo	Q1	Q1AA10150D	100	1.50	HDK10
Sanyo	Q1	Q1AA10200D	100	2.00	HDK10
Sanyo	R2	R2AA08075F	80	0.75	HDH10
Sanyo	R2	R2AA10075F	100	0.75	HDK10
Sanyo	R2	R2AA10100F	100	1.00	HDK10
Sanyo	R2	R2AAB8075F	86	0.75	HDC10
Sanyo	R2	R2AAB8100F	86	1.00	HDJ10
Sanyo	R2	R2AAB8100H	86	1.00	HDC10
Yaskawa	Σ5	SGMAV-08A	80	0.75	HDA10
Yaskawa	Σ5	SGMAV-10A	80	1.00	HDA10
Yaskawa	Σ5	SGMGV-03A	90	0.30	HDB10
Yaskawa	Σ5	SGMGV-05A	90	0.45	HDC10
Yaskawa	Σ5	SGMJV-08A	80	0.75	HDA10
Yaskawa		SGMSV-10A	100	1.00	HDD10
Yaskawa		SGMSV-15A	100	1.50	HDD10
Yaskawa	Σ5	SGMSV-20A	100	2.00	HDD10
Yaskawa	Σ5	SGMSV-25A	100	2.50	HDD10
Yaskawa		SGM7A-08A	80	0.75	HDA10
Yaskawa		SGM7A-10A	80	1.00	HDA10
Yaskawa	Σ7	SGM7A-15A	100	1.50	HDD10
Yaskawa	Σ7	SGM7A-20A	100	2.00	HDD10
Yaskawa		SGM7A-25A	100	2.50	HDD10
Yaskawa	Σ7	SGM7G-03A	90	0.30	HDC10
Yaskawa	Σ7	SGM7G-05A	90	0.45	HDC10

SGM7J-08A

Yaskawa

0.75

GTB100 Motor Interface Code

mm

130

130

130

130

130

130

130

130

130

130

130

130

130

130

130

130

100

100

100

100



Series

SV

SV2

SV2

J3

R2

R2

Σ5

Σ5

Σ5

Σ5

Σ5

Σ5

Σ5

Σ7

Σ7

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Fanuc

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Fanuc Fanuc

Fanuc

Keyence

Mitsubishi

Mitsubishi

Mitsubishi

Mitsubishi

Mitsubishi

Mitsuhishi

Sanyo

Yaskawa Yaskawa

Yaskawa

Yaskawa

Yaskawa

Yaskawa Yaskawa

Yaskawa Yaskawa

Yaskawa

Yaskawa

Yaskawa

Yaskawa Yaskawa

Yaskawa

Kevence

Ratio **1/60**

Output

KW

1 40

1.60

0.75

1.00

0.50

1.20

1.40

1 80

0.85

1 80

1.30

1.80

0.50

0.85

1,00

1.50

0.50

0.50

0.85

1.00

1.50

1.00

1.50

2.00

1.00

1.50

2.00

0.55

1.20

1.20

1,80

0.30

0.45

1.30

1.00

2.00

2.50

2 00

2.50

0.30

0.45

0.85

1.30

1.80

Code

JGB15

JGA11

JGA11

JGB15

JGB15

JGA11 JGB15

JGA11

JGA10

JGA11

JGA12 JGA10

JGA10 JGA10

JGA10

JGA10

JGA10

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JGA12

JGA10 JGC10

JGC10

JGC10 JGC10

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JGC10 JGC10

JGB14 JGB14

JGA10

JGA10

JGA10

JGA11

JGA10



Ratio **1/20**

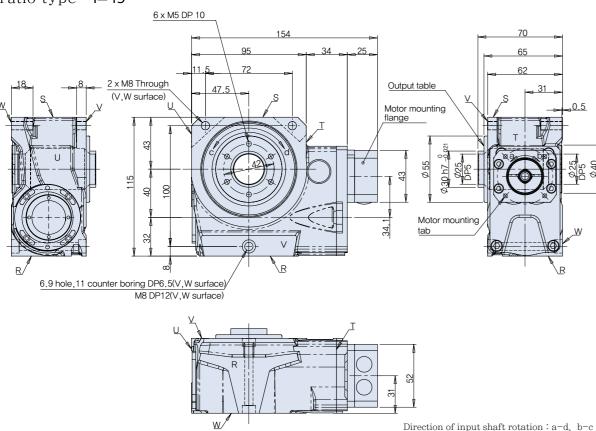
* In the direct type, the motor is mounted without bush

				is mounted without bush.		
Attached Bush	Mak Ser	er/ ies	Model	п mm	Output KW	MI Code
0	Fanuc	α	αiF4/4000	130	1.40	JDA10
0	Fanuc	α	αiF8/3000	130	1.60	JDA10
0	Fanuc	α	αiS8/4000	130	2.50	JDA10
0	Fanuc	α	αiS12/4000	130	2.70	JDC10
0	Fanuc	β	βiS8/3000	130	1.20	JDA10
0	Fanuc	β	βiS12/2000	130	1.40	JDC10
0	Fanuc	β	βiS12/3000	130	1.80	JDC10
-	Keyence	SV	SV-M100A	130	0.85	JDA10
-	Keyence	SV	SV-M150A	130	1.30	JDB10
0	Keyence	SV	SV-M200A	130	1.80	JDC10
•	Keyence	SV2	SV2-M100A	130	0.85	JDC10
-	Keyence	SV2	SV2-M150A	130	1.30	JDC10
-	Keyence	SV2	SV2-M200A	130	1.80	JDC10
-	Mitsubishi	J3	HF-SP51	130	0.50	JDC10
_	Mitsubishi	J3	HF-SP81	130	0.85	JDC10
_	Mitsubishi		HF-SP102			
-	Mitsubishi	J3		130	1.00	JDC10
-		J3	HF-SP152	130	1.50	JDC10
-	Mitsubishi	J4	HG-SR51	130	0.50	JDC10
	Mitsubishi	J4	HG-SR81	130	0.85	JDC10
-	Mitsubishi	J4	HG-SR102	130	1.00	JDC10
-	Mitsubishi	J4	HG-SR152	130	1.50	JDC10
-	Panasonic	A5	MDME102	130	1.00	JDB10
0	Panasonic	A5	MDME152	130	1.50	JDB10
0	Panasonic	A5	MDME202	130	2.00	JDB10
0	Panasonic	A6	MDMF102	130	1.00	JDB10
0	Panasonic	A6	MDMF152	130	1.50	JDB10
0	Panasonic	A6	MDMF202	130	2.00	JDB10
0	Sanyo	Q1	Q1AA10150D	100	1.50	JDE10
0	Sanyo	Q1	Q1AA10200D	100	2.00	JDE10
0	Sanyo	Q1	Q1AA10250D	100	2.50	JDE10
0	Sanyo	R2	R2AA13050D	130	0.55	JDB10
0	Sanyo	R2	R2AA13050H	130	0.55	JDB10
0	Sanyo	R2	R2AA13120B	130	1.20	JDB10
0	Sanyo	R2	R2AA13120D	130	1.20	JDB10
0	Sanyo	R2	R2AA13120L	130	1.20	JDB10
0	Sanyo	R2	R2AA13180D	130	1.80	JDB10
0	Sanyo	R2	R2AA13180H	130	1.80	JDB10
0	Yaskawa	Σ5	SGMGV-09A	130	0.85	JDA10
-	Yaskawa	Σ5	SGMGV-13A	130	1.30	JDB10
-	Yaskawa	Σ5	SGMGV-20A	130	1.80	JDC10
-	Yaskawa	Σ5	SGMSV-15A	100	1.50	JDD10
_	Yaskawa	Σ5	SGMSV-20A	100	2.00	JDD10
-	Yaskawa	Σ5	SGMSV-25A	100	2.50	JDD10
_	Yaskawa	Σ7	SGM7A-15A	100	1.50	JDD10
_	Yaskawa	Σ7	SGM7A-20A	100	2.00	JDD10
0	Yaskawa	Σ7	SGM7A-25A	100	2.50	JDD10
0	Yaskawa	Σ7	SGM7G-09A	130	0.85	JDC10
-	Yaskawa	Σ7	SGM7G-13A	130	1.30	JDC10
-	Yaskawa	Σ7	SGM7G-20A	130	1.80	JDC10
-	raskawa	21	GGIVIT G-ZUA	100	1.00	00010

15

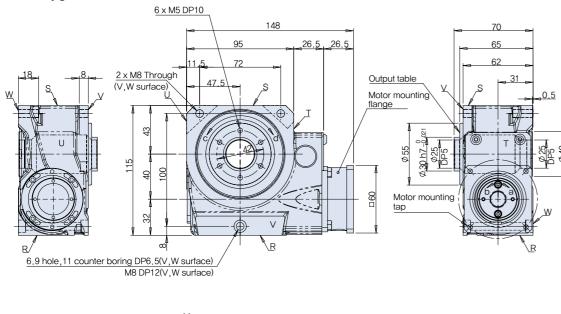
GTB40 (motor : 38, : 240)

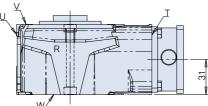
High ratio type i=45



GTB40(motor = 60)

Motor direct type i=15



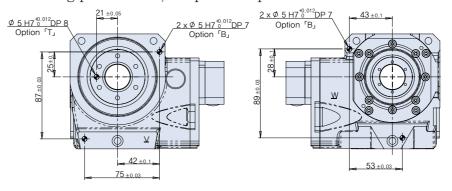


Direction of input shaft rotation: a-d, b-c

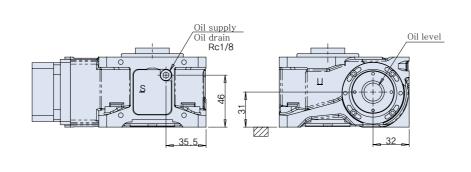
■ Dimension

GTB40 Option

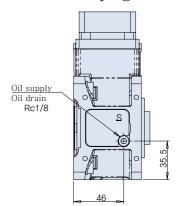
Housing pin hole: B, Output table pin hole: T

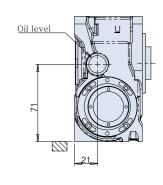


Oil lubrication:Q(Location of oil plug/Plane)



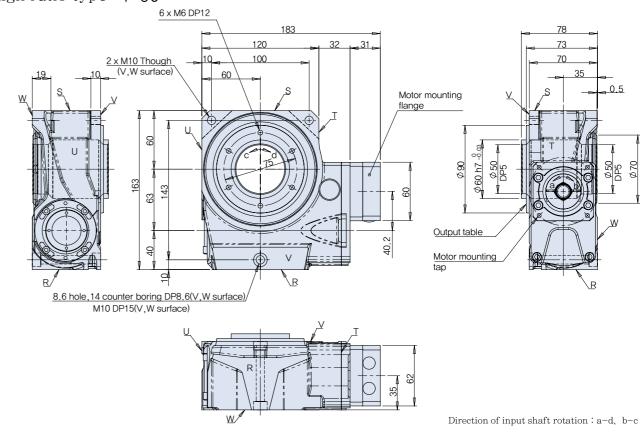
Oil lubrication : Q (Location of oil plug/Vertical)





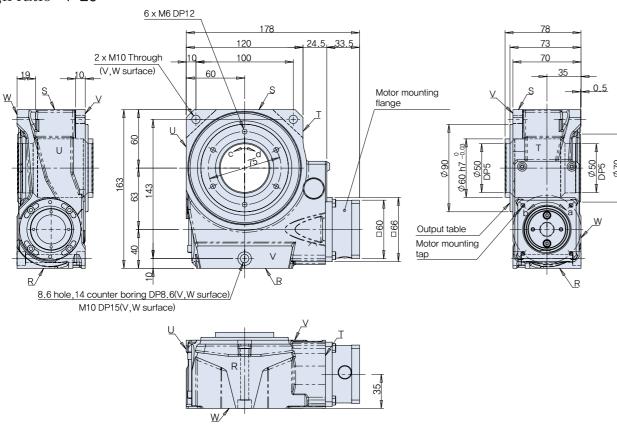
GTB63(motor = 60)

High ratio type i=60



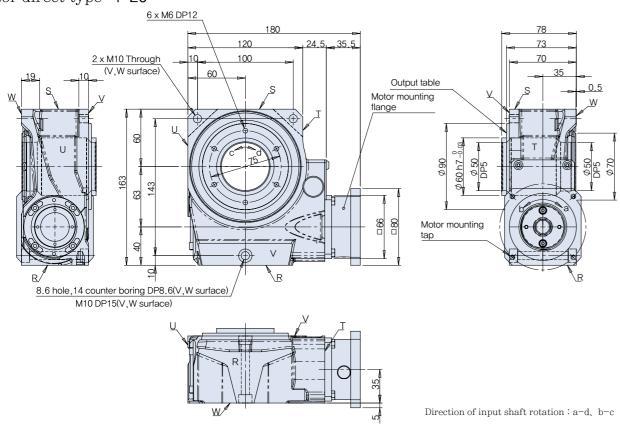
GTB63(motor = 60)

High ratio i=20



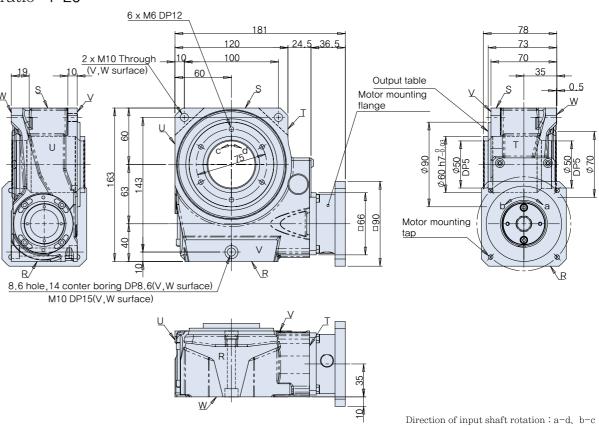
GTB63(motor = 80)

Motor direct type i=20



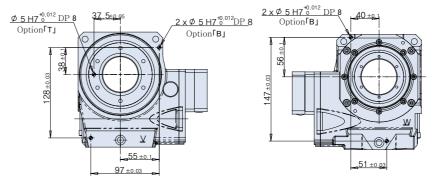
GTB63(motor = 86, = 90)

High ratio i=20

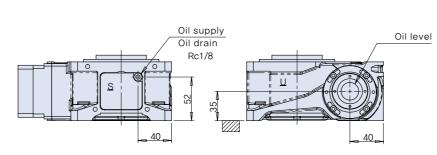


GTB63 Option

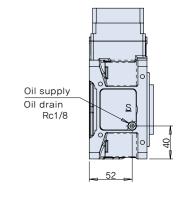
Housing pin hole: B, Output table pin hole: T

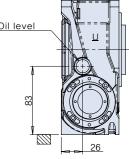


Oil lubrication : Q (Location of oil plug/Plane)



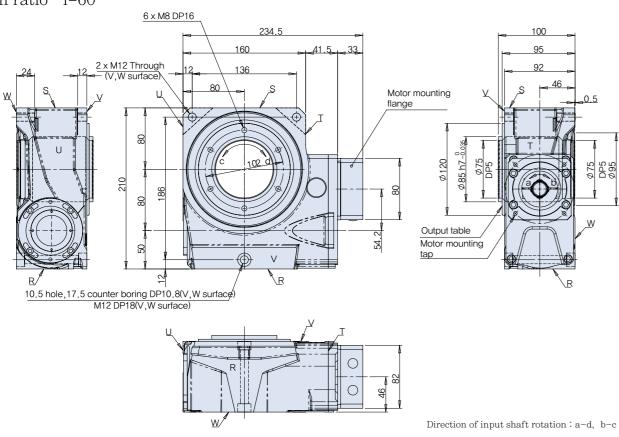
Oil lubrication : Q (Location of oil plug/Vertical)





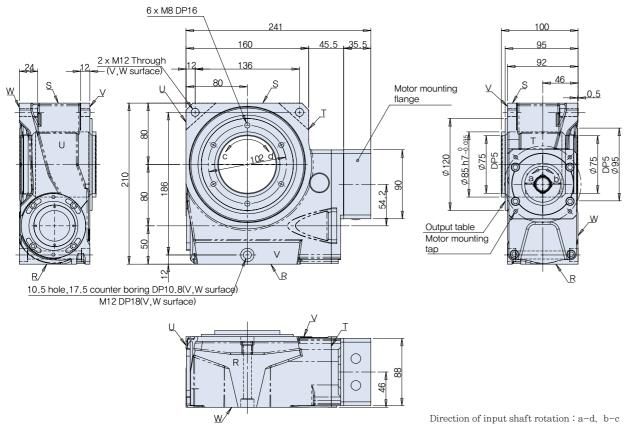
GTB80(motor = 80)

High ratio i=60



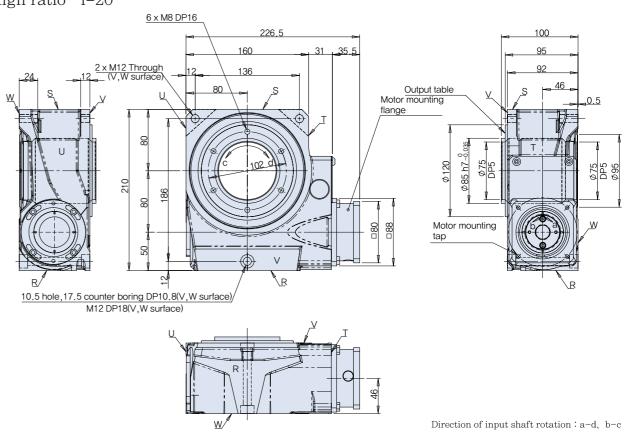
GTB80(motor □ 86, □ 90)

High ratio i=60



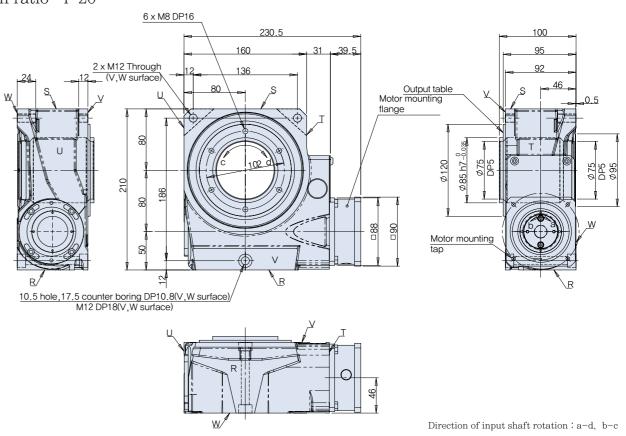
GTB80(motor = 80)

High ratio i=20



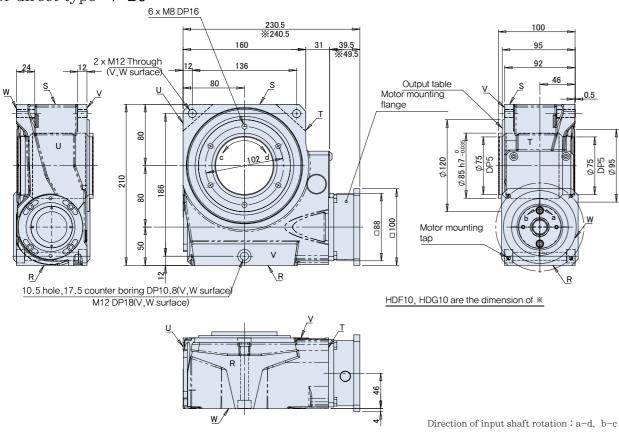
GTB80(motor □ 86, □ 90)

High ratio i=20



GTB80(motor = 100)

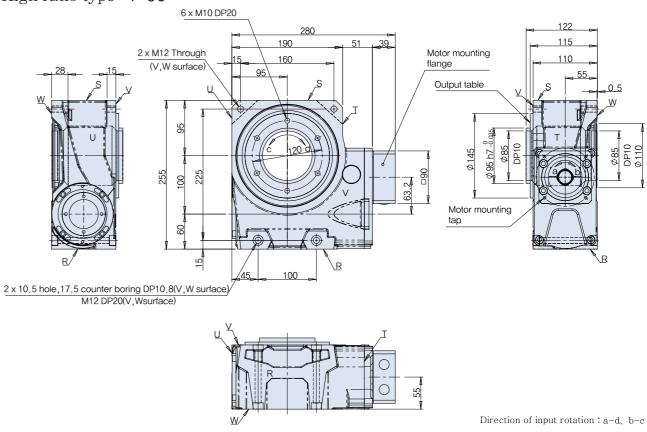
Motor direct type i=20



GTB100(motor = 90)

High ratio type i=60

High ratio type i=60

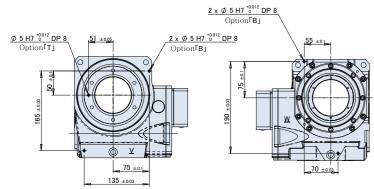


GTB80 Option

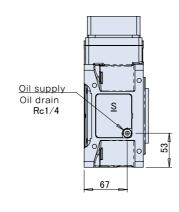
Housing pin hole: B, Output table pin hole: T

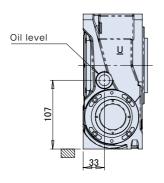
Oil lubrication: Q (Location of oil plug/Plane)

Oil supply Oil drain

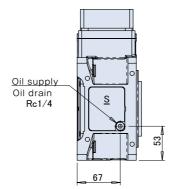


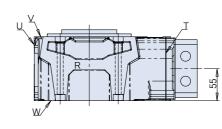
Oil lubrication: Q (Location of oil plug/Vertical)

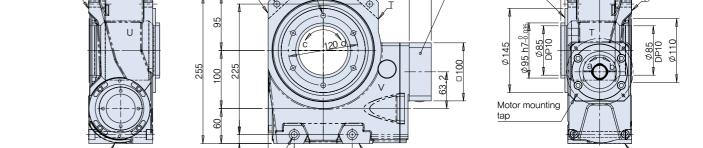




GTB100(motor = 100)







M12 DP20(V,W surface)

2 x 10.5 hole,17.5 counter boring DP10.8(V,W surface)

6 x M10 DP20

2 x M12 Through (V,W surface)

Direction of input shaft rotation: a-d, b-c

Motor mounting

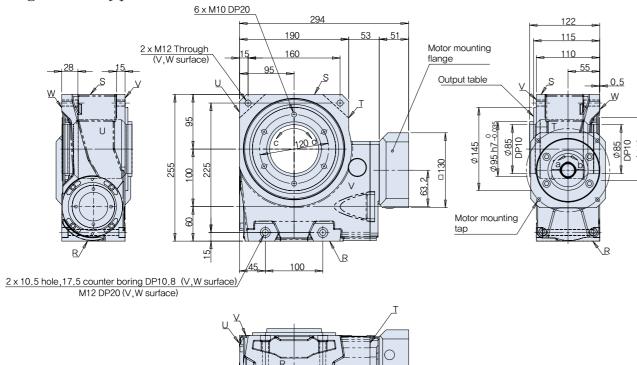
Output table

22

Oil level

GTB100(motor - 130)

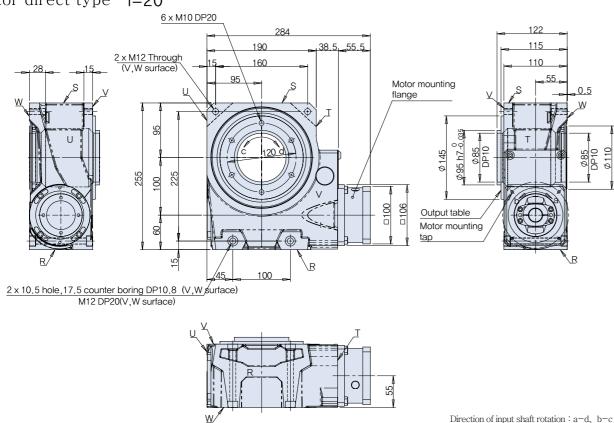
High ratio type i=60



Direction of input shaft rotation: a-d, b-c

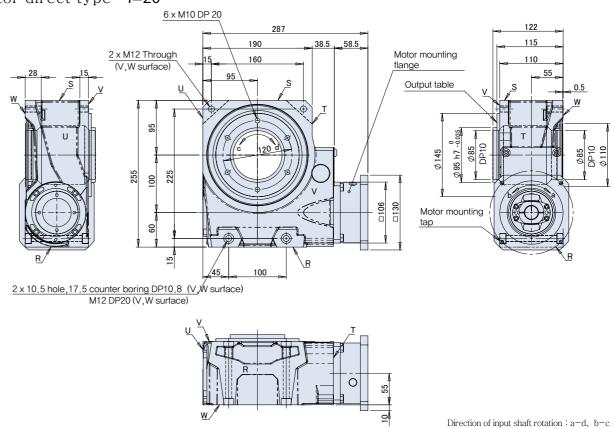
GTB100(motor = 100)

Motor direct type i=20



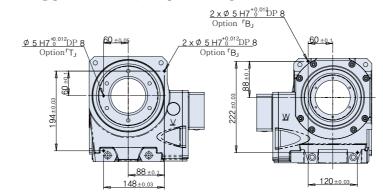
GTB100(motor - 130)

Motor direct type i=20

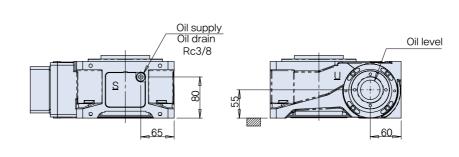


GTB100 Option

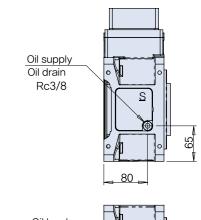
Housing pin hole: B, Output table pin hole: T

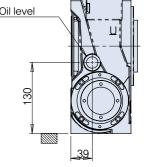


Oil lubrication: Q (Location of oil plug/Plane)



Oil lubrication : Q (Location of oil plug/Vertical)





■ Notice

- Proper selection and use of this product should be observed.
- The specifications shown in this catalog are based on Hannz evaluation method.
 Please check that there is no problem with the actual conditions of use.
- Operation mitakes and incorrect use can result in malfuntion, damageor injury.
 Please consider sufficient safety measures.
- Depending on the operation pattern, the surface temperature of the product may be increased by the heat of the servo motor or the heat generated in the reducer. Please consider cooling measures so that the surface temperature does not exceed 60°C.
- When repeatedly operating at a very small angle, the lubrication condition and the load condition may be stricter than expected and fretting may occur. Contact us if you are using the product at a rotation angle of 10° or less.
- If the final use of this product is a weapon-related facility or an organization related to it, it may be subject to export control regulated by the Foreign Exchange Control Act. Therefore, the customer must be properly examined and exported.
- Please contact us if you want to review the application of the product to a device that may affect human life or human body due to malfunction of this product.
- Safety information and detailed product handling instructions are described in the instruction manual.

■ Warranty

- If it is confirmed that the product is defective due to design or manufacturing defects within a period of one year after delivery or 2,000 hours after start of operation, the repair or replacement of the product shall be carried out at Hannz own expense.
- For the above items, it is our responsibility to repair any defective product or replace the defective product.

 No compensation is made for other expenses (compensation for loss of opportunity cost, disassembly and assembly cost of cutomer machinery, transportation costs)
- The maintenance will be charged to customer if any of below conditions are included.
- ① Consumable parts and the parts exceeded the life cycle time.(Oil seal and etc.)
- ② Failure to comply with the proper uses conditions specified by Hannz.
- ③ This product is used in a special environment (high temperature, low temperature, high humidity, vacuum, large amount of dust, high pressure, flammable materials etc.)
- ④ Any pollution, influence of external substances and power transmission.
- (5) When other lubricants, consumables, etc. are used in the product.
- $\ensuremath{\mathfrak{G}}$ Assemble, disassemble, repair or modify are not done by Hannz.
- (7) Any other external influence by other machine.
- ® Any influence by natural disaster such as fire, earthquake, thunder and etc.
- 9 For other product design defects.

■ Product selection request form

Please fill in the following sheet and contact us by e-mail or Fax.

[Company]		[Address]			
[Department]		[TEL]	[FAX]		
[Name]		[Mail-Address]			
[Application]		L			
[Drawing • Load condition] (If there is a table, workpiece, jig, each of the condition)	tc. mounted on the output shaft, p	olease explain by drawing)	Table diameter	[mm]	
, , ,			Table weight	[kg]	
			Jig PCD	[mm]	
			Jig weight		
			Number of jig	[kg]	
			Workpiece PCD	[개]	
			Workpiece weight	[mm]	
				[kg]	
			Number of workpiece	[ea]	
[Information of servo motor]	[Operation conditions]		Output indexing angle	[deg]	
■ Maker	Output shaft speed		Acceleration time: t1	[sec]	
	aft speed		Constant time: t 2	[sec]	
■ Model		Time	Deceleration time: t 3	[sec]	
	<u> </u>	t 3 t 4	Stop time: t 4	[sec]	
■ Motor capacity	t 5	>	Indexing time: t 5	[sec]	
[kW]	<u> </u>	t 6	Cycle time: t 6	[sec]	
[Other] (Explain about the operation environ	ment, operation conditions, etc.)				





Related product

Small high-speed rotation positioning PGM40 0.2~0.4kW

Compact and lightweight positioning unit PGM40. suitable for table rotation and sub-drive part. high-speed rotation is possible.



Heavy-duty servo positioning DSRseries 3 5~1

3.5~15.0kW

large index suitable for positioning of heavy loads, convenient use due to large hollow, selectable from 6 models according to require—







ADDRESS: 241, Hyeomnyeok-ro, Siheung-si,

Gyeonggi-do, Korea TEL: 82-31-499-4054 FAX: 82-31-499-4056 www.hannzmotrol.com

■ The specifications, dimensions performance and appearance of this catalog are subject to change without notice

