

Ball Reduce



RGSBRU Series

Feature

Backlash free with highly precise positioning: By replacing gears with steel balls, we have achieved repeated accurate positioning with 0 backlash.

Excellent rigidity in performance: The Ball Reducer is structured to have steel balls rolling on their routes, but not with transmitted friction; therefore, it won't result in slipping incidence.

Compact size; designed to save space: Flexible and unrestricted installment. The solution for limited and confined space.

Whisper quiet: Only the sound of the rolling balls can be heard, achieving a low noise operation.

Sealed shut design, self-lubricated and easy to install: Custom lubrication applied; maintenance free.

Economical of the price: The price is really reasonable, and creating more profits to you.

Designed to work with any servomotors: You provide your requirements, the rest we'll take care of.

Installation of gear box: The gearbox is a high precision product; hence it must be careful in installation, and forbid knocking at the shaft and any part of the gearbox.

Specification

Description /	Models	Ratio	RGSBRU110 RGSBRU125 RGSBRU130 RGSBRU200 RGSBEE50 RGSBEE70 RGSBEE90						
			RGSBRU110	RGSBRU125	RGSBRU130	RGSBRU200	RGSBEE50	RGSBEE70	RGSBEE90
Continuous Output Torque (kgf*m / Nm)		10	—	—	—	—	1.43/14.01	3.22/31.55	4/3.92
		15	—	—	—	—	—	2.11/20.68	2.78/27.24
		20	—	4.35/42.63	—	—	—	1.57/15.39	3.93/38.51
		30	—	3.17/31.06	—	9.33/91.43	1.16/11.37	2.19/21.46	1.8/17.64
		40	—	2.5/24.5	2.5/24.5	14.4/141.12	—	1.64/16.07	2.88/28.22
		42	—	—	—	10/98	—	—	—
		50	1.96/19.21	3.57/34.99	—	10.64/104.27	—	—	3.47/34
Max. Torque(kgf*m / Nm)	10~50	Three Times Rated Output Torque							
Breaking point(kgf*m / Nm)	10~50	Six Times Rated Output Torque							
(kg*cm ²) Gear Reducer Inertia	10~50	0.42	0.64	0.56	0.26	0.06	0.14	0.92	
Permissible Input Rotation (rpm)	10~50	3000							
Permissible Radial Force(kgf)	10~50	50	170	170	200	20	40	80	
Input Shaft Diameter(mm)	10~50	14	14	14	19、22、24	8	14	14~19	
DSSolid Input Shaft Diameter(mm)	10~50	X	X	X	X	X	X	X	
Weight(kg)	10~50	2.5	3.9	4.3	12.65	0.46	3.4	4.3	

Description /	Models	Ratio	RGSBRE50 RGSBDE70 RGSBDE90 RGSBPE50 RGSBPE70 RGSBPE90					
			RGSBRE50	RGSBDE70	RGSBDE90	RGSBPE50	RGSBPE70	RGSBPE90
Continuous Output Torque (kgf*m / Nm)		10	1.43/14.01	3.22/31.55	4/3.92	1.43/14.01	3.22/31.55	4/3.92
		15	—	2.11/20.68	2.78/27.24	—	2.11/20.68	2.78/27.24
		20	—	1.57/15.39	3.93/38.51	—	1.57/15.39	3.93/38.51
		30	1.16/11.37	2.19/21.46	1.8/17.64	1.16/11.37	2.19/21.46	1.8/17.64
		40	—	1.64/16.07	2.88/28.22	—	1.64/16.07	2.88/28.22
		42	—	—	—	—	—	—
		50	—	—	3.47/34	—	—	3.47/34
Max. Torque(kgf*m / Nm)	10~50	Three Times Rated Output Torque						
Breaking point(kgf*m / Nm)	10~50	Six Times Rated Output Torque						
(kg*cm ²) Gear Reducer Inertia	10~50	0.06	0.14	0.92	0.06	0.14	0.92	
Permissible Input Rotation (rpm)	10~50	3000						
Permissible Radial Force(kgf)	10~50	25	40	108	20	40	80	
Input Shaft Diameter(mm)	10~50	X	14	14~19	8	14	16~19	
DSSolid Input Shaft Diameter(mm)	10~50	8	X	X	X	X	X	
Weight(kg)	10~50	0.46	3.4	4.3	0.46	3.4	4.3	

The depth of screw within 10.5mm in RGSBRU110
The depth of screw within 13.5mm in RGSBRU130