RG-2013T/2820T/4230T



Basic specifications

Model name		YRG-2013T YRG-2820T YRG-42					
Holding power	Max. continuous rating (N)	2	10	20			
	Min. setting (% (N))	30 (0.6)	30 (3)	30 (6)			
	Resolution (% (N))	1 (0.02)	1 (0.1)	1 (0.2)			
Open/close stroke (mm)		13	20	30			
Speed	Max. rating (mm/sec)	100					
	Min. setting (% (mm/sec))	20 (20)					
	Resolution (% (mm/sec))	1 (1)	1 (1)	1 (1)			
	Holding speed (Max.) (%)	50	50	50			
Repetitive positioning accuracy (mm)		+/-0.03					
Guide mechanism		Linear guide					
Max. holding weight Note 1 (kg)		0.02	0.1	0.2			
Weight (g)		190	340	640			

Hoding power control: 30 to 100% (1% steps)

• Speed control: 20 to 100%

• Acceleration control: 1 to 100% (1% steps)

• Multipoint position control: 10,000 max 20 to 100% (1% steps) Acceleration control : 1 to 100% (1% steps)

Acceleration control: 1 to 100% (1% steps)
Mote. Design the finger as short and lightweight as possible.

Note. Set the parameters and holding power (%) of the holding movement command so that any excessive shock is not applied to the finger during operation.

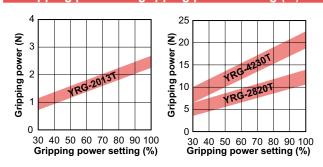
Note. When installing or uninstalling the finger, tighten the bolts while the finger is being held securely so that any excessive force or shock is not applied to the guide block.

Note. Workpiece weight that is able to be held may greatly vary depending on the material, shape, and/or belighten surface accellations of the finer.

holding surface conditions of the finger.

Note 1. Design the weight of a workpiece to be held so that it is approximately 1/10 to 1/20 of the holding power. (Consider further allowance when moving and swinging the gripper that keeps holding a workpiece.)

■ Gripping power vs. gripping power setting (%)



• Graph shows a general guide to gripping power versus gripping power setting (%). Variations will appear in the actual gripping power.

Allowable load and load moment

				YRG-2013T	YRG-2820T	YRG-4230T
Finger	Allowable load		N	20	30	50
	Allowable pitching moment		N•m	0.1	0.2	0.4
	Max. weight (1 pair)		g	20	30	50
	Max. holding position	L	mm	20	30	40

• When the external forces Fa and Fb are applied to a potion the distance (L) apart from the finger installation surface, the load (F) and moment (M) are calculated from the formulas shown below

 $F = Fa + W \times g$

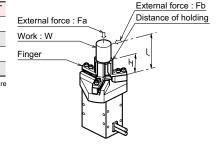
 $M = Fb \times L$

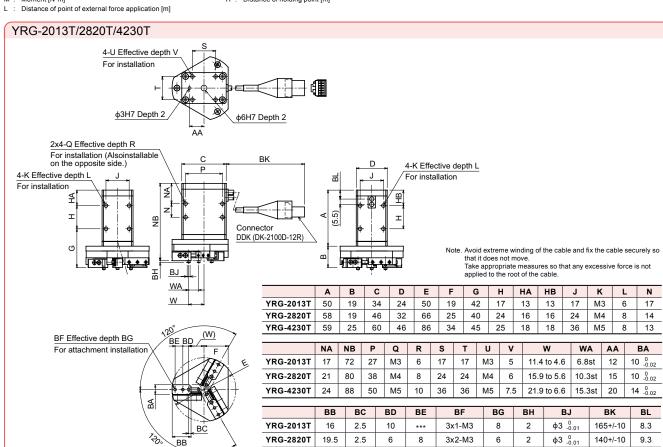
: Load [N]

Fa: External force [N] External force [N] w

Workpiece weight [Kg] Gravity acceleration [m/s²]

Distance of holding point [m]





YRG-4230T

22.5

2.5

6

10

3x2-M4

8

235+/-10

10.8