YRG Series

Screw type strait style

RG-2020FS/2840FS



Bas	ic spec	cificat	tions
		41144	

Model name		YRG-2020FS	YRG-2840FS			
Model number		KCF-M2013-A0	KCF-M2013-B0			
Holding power	Max. continuous rating (N)	50	150			
	Min. setting (% (N))	30 (15)	30 (45)			
	Resolution (% (N))	1 (0.5)	1 (1.5)			
Open/close stroke (mm)		19	38			
Speed	Max. rating (mm/sec)	50	50			
	Min. setting (% (mm/sec))	20 (10)	20 (10)			
	Resolution (% (mm/sec))	1 (0.5)	1 (0.5)			
	Holding speed (Max.) (%)	50	50			
Repetitive positioning accuracy (mm)		+/-0.01	+/-0.01			
Guide mechanism		Linear guide				
Max. holding weight Note 1 (kg)		0.5	1.5			
Weight (g)		420	880			

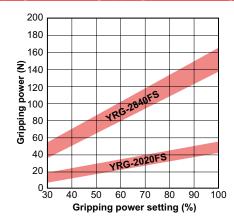
- Hoding power control: 30 to 100% (1% steps)
 Speed control: 20 to 100% (1% steps)
 Acceleration control: 1 to 100% (1% steps)
 Multipoint position control: 10,000 max.
- Note. Design the finger as short and lightweight as possible. Note. Set the parameters and holding power (%) of the holding movement 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 mate-
- rial, shape, and/or 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-2020FS	YRG-2840FS
Guide	Allowable load	F	N	1000	1300
	Allowable pitching moment	Мр	N•m	3.5	5
	Allowable yawing moment	My	N•m	4.2	6
	Allowable rolling moment	Mr	N•m	7.3	12.7
Finger	Max. weight (1 pair)		g	40	80
	Max. holding position	L	mm	30	30
	Max. overhang	Н	mm	20	20

- · Mount the finger so that the allowable load and load moment of the guide do not exceed the values stated in the table above
- Make the adjustment so that the finger weight, holding length (L) from the installation surface to the holding point,
- and overhang (H) do not exceed the values stated in the table above.

 Please contact your YAMAHA sales dealer for further information on combination of L and H.

