## Screw type strait style RG-2020FS/2840FS



## ■ Basic specifications

Model	name	YRG-2020FS	YRG-2840FS				
Holding power	Max. continuous rating (N)	50	150				
	Min. setting (% (N))	30 (15)	30 (45)				
	Resolution (% (N))	1 (0.5)	1 (1.5)				
Open/c	lose 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				
Repetitiv	re positioning accuracy (mm)	+/-0.01	+/-0.01				
Guide mechanism		Linear guide					
Max. h	olding weight Note 1 (kg)	0.5	1.5				
Weight	(g)	420	880				

- Hoding power control: 30 to 100% (1% steps)
  Acceleration control: 1 to 100% (1% steps)
  Multipoint position control: 10,000 max.

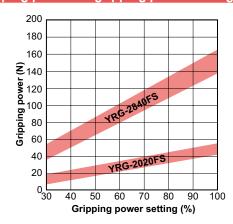
  Note. Design the finger as short and lightweight as possible.

  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 material, 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.)

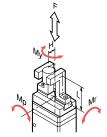
## ■ Gripping power vs. gripping power setting (%)



• 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	Му	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.

YRG-2020FS/28	40FS													
	4-U Effective For install	⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	SA		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(20) \$\phi\$10H  G  2×2-N E		epth P	12R) W W Z			M4 Effecti or installati	ve depth 6 ion	
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YRG-2020FS 22 YRG-2840FS 30	12 15	15 20	16	2	18 0	30	84	13 to 51	φ4 <sup>0</sup> <sub>-0.012</sub>	8	14	5.5	27.5 34.5	M3 M4

9

24

24

28

30

36

12.5

14

M4

6

7.5

60

9

38

YRG-2020FS

YRG-2840FS

30

76

175+/-10

135+/-10

27

27