Compact single cam type

RG-2005SS



| Basic specifications | | | | | |
|--------------------------------------|----------------------------|--------------|--|--|--|
| | | | | | |
| Model name | | YRG-2005SS | | | |
| Model n | umber | KCF-M2010-A0 | | | |
| Holding power | Max. continuous rating (N) | 5 | | | |
| | Min. setting (% (N)) | 30 (1.5) | | | |
| | Resolution (% (N)) | 1 (0.05) | | | |
| Open/close stroke (mm) | | 3.2 | | | |
| Speed | Max. rating (mm/sec) | 100 | | | |
| | Min. setting (% (mm/sec)) | 20 (20) | | | |
| | Resolution (% (mm/sec)) | 1 (1) | | | |
| | Holding speed (Max.) (%) | 50 | | | |
| Repetitive positioning accuracy (mm) | | +/-0.02 | | | |
| Guide mechanism | | Linear guide | | | |
| Max. ho | lding weight Note 1 (kg) | 0.05 | | | |
| 14/ 11/ () | | 22 | | | |

- 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.

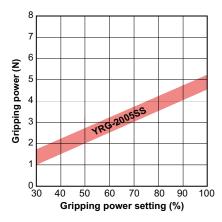
Note. Design the finger as short and lightweight as possible.

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 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.)

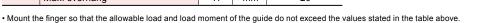
■ Gripping power vs. gripping power setting (%)



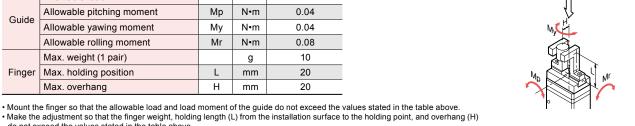
 Graph shows a general guide to gripping power versus gripping power setting (%). Variations will appear in the actual gripping power.

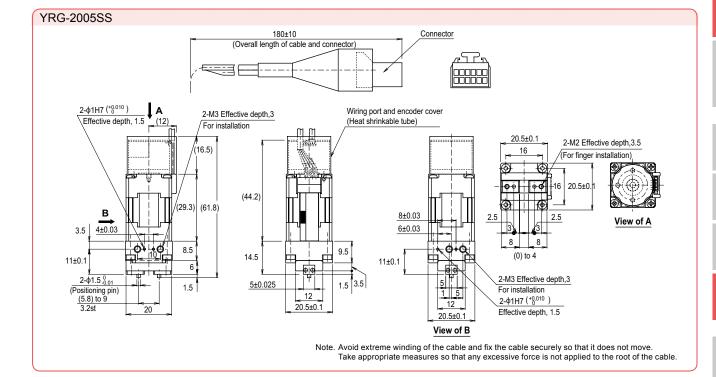
Allowable load and load moment

| | Allowable load | F | N | 12 |
|--------|---------------------------|----|-----|------|
| Cuida | Allowable pitching moment | Мр | N•m | 0.04 |
| Guide | Allowable yawing moment | Му | N•m | 0.04 |
| | Allowable rolling moment | Mr | N•m | 0.08 |
| | Max. weight (1 pair) | | g | 10 |
| Finger | Max. holding position | L | mm | 20 |
| | Max. overhang | Н | mm | 20 |



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 Series

Single cam type

RG-2010S/2815S/4225S



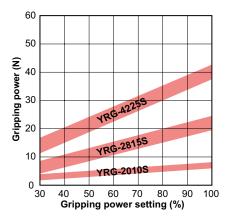
| ■ Basic specifications | | | | | |
|--------------------------------------|----------------------------|---------------------------|--------------|---------|--|
| Model name | | YRG-2010S YRG-2815S YRG-4 | | | |
| Model n | umber | KCF-M2011-A0 | KCF-M2011-C0 | | |
| | Max. continuous rating (N) | 6 22 | | 40 | |
| Holding power | Min. setting (% (N)) | 30 (1.8) | 30 (6.6) | 30 (12) | |
| power | Resolution (% (N)) | 1 (0.06) | 1 (0.22) | 1 (0.4) | |
| Open/close stroke (mm) | | 7.6 | 14.3 | 23.5 | |
| Speed | Max. rating (mm/sec) | 100 | | | |
| | Min. setting (% (mm/sec)) | 20 (20) | | | |
| | Resolution (% (mm/sec)) | 1 (1) | | | |
| | Holding speed (Max.) (%) | 50 | | | |
| Repetitive positioning accuracy (mm) | | +/-0.02 | | | |
| Guide mechanism | | Linear guide | | | |
| Max. holding weight Note 1 (kg) | | 0.06 | 0.22 | 0.4 | |
| Weight (| (a) | 160 | 300 | 580 | |

- 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-2010S | YRG-2815S | YRG-4225S |
|--------|---------------------------|----|-----|-----------|-----------|-----------|
| | Allowable load | F | N | 450 | 350 | 600 |
| Guide | Allowable pitching moment | Мр | N•m | 0.7 | 0.5 | 1.1 |
| Guide | Allowable yawing moment | Му | N•m | 8.0 | 0.6 | 1.3 |
| | Allowable rolling moment | Mr | N•m | 2.3 | 2.8 | 8.6 |
| | Max. weight (1 pair) | | g | 15 | 30 | 50 |
| Finger | Max. holding position | L | mm | 20 | 20 | 25 |
| | Max. overhang | Н | mm | 20 | 25 | 30 |

- · 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.

