

| | | |
|------------|-------------|-------------------|
| Index | RGIS | 040 to 250 |
| Oscillator | RGOS | |
| Reducer | RGCS | |

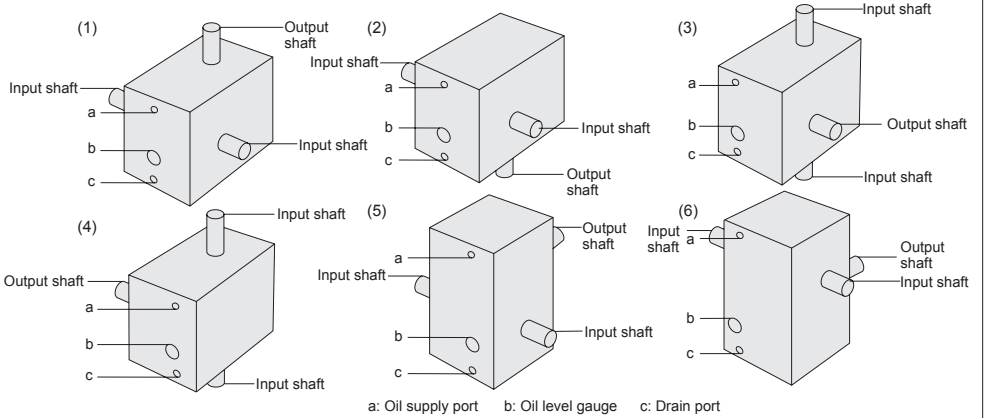
Common specifications



1. Installation position

For the positions of the fill/drain ports and the oil level gauge, refer to the dimensions page for each size.

Depending on the position of the index drive, the oil supply port, the drain port and the oil level gauge are to be located differently. You should choose one of the correct orientations from (1) to (6).



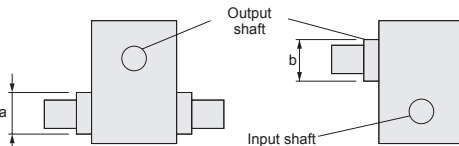
2. Housing mounting holes: mounting holes all machined on the 6 faces of the housing.

3. Material of housing

For those with the difference between the shafts of 40, 50, 63 and 80, either Fc or Al can be chosen.

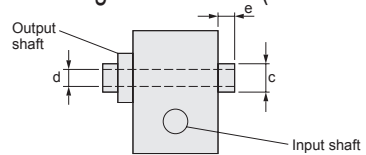
| Size | Material |
|-------------------|----------|
| 040 to 250 | Fc |
| 040 to 080 | Al |

4. Diameter of the stepped section of the input/output shaft



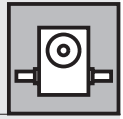
| Dimensions | a | b |
|------------|------|------|
| Size | | |
| 040 | ∅ 15 | ∅ 20 |
| 050 | ∅ 17 | ∅ 25 |
| 063 | ∅ 25 | ∅ 30 |
| 080 | ∅ 28 | ∅ 32 |
| 110 | ∅ 32 | ∅ 42 |
| 140 | ∅ 42 | ∅ 55 |
| 180 | ∅ 55 | ∅ 70 |
| 250 | ∅ 70 | ∅ 90 |

5. Hollow flange shaft model (custom order)



| Dimensions | c | d | e |
|------------|------|------|---|
| Size | | | |
| 080 | ∅ 25 | ∅ 12 | 5 |
| 110 | ∅ 30 | ∅ 16 | 5 |
| 140 | ∅ 40 | ∅ 20 | 5 |
| 180 | ∅ 55 | ∅ 30 | 5 |
| 250 | ∅ 80 | ∅ 45 | 5 |

* For the installation position (6), please contact CKD.



6. Output shaft (flange shaft) positioning pin hole dimensions (custom order)

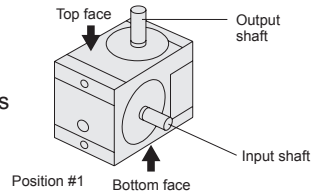
When positioning pin holes are to be added to the output shaft, the dimensions should be as follows:

| Size | 050 | 063 | 080 | 110 | 140 |
|----------------|------------------------------------------|------------------------------------------|-----------------------------|------------------------------|---------------------|
| Pitch | | | | | |
| Reference hole | ∅ 8H7 penetrating Effective length 12 | ∅ 8H7 penetrating Effective length 12 | ∅8H7 depth 15 (P.C.D 46) | ∅10H7 depth 20 (P.C.D 60) | 2-∅13H7 depth 25 |
| Size | 180 | 250 | | | |
| Pitch | | | | | |
| Reference hole | 2-∅16H7 depth 30 | 2-∅20H7 depth 30 | | | |

7. Housing dowel pin hole dimensions (custom order)

When housing dowel pin holes are to be added, the dimensions should be as follows:

Note: For aluminum housing, contact CKD.



| Size | 040 | 050 | 063 | 080 | 110 | 140 | 180 | |
|------------------------|----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|--|
| Top face | | | | | | | | |
| Bottom face | | | | | | | | |
| Standard Hole diameter | 2-∅6H7 depth 8 | 2-∅8H7 depth 10 | 2-∅8H7 depth 10 | 2-∅8H7 depth 10 | 2-∅10H7 depth 10 | 2-∅13H7 depth 8 | 2-∅13H7 depth 10 | |

* For the tolerance of positioning pins on the lower face, contact CKD.

| | | |
|------------|------|------------|
| Index | RGIS | 040 to 250 |
| Oscillator | RGOS | |
| Reducer | RGCS | |

● Common specifications

8. Optional worm reducer

Standard worm reducers

| Main model No. | HO reducer Size | Reduction ratio Value in () represents the special reduction ratio | TE reducer Size | Reduction ratio |
|----------------|-----------------|---------------------------------------------------------------------|----------------------------------|-----------------|
| RGIS | 040 | HO 32 | 1/20, 1/40, 1/60 (1/30, 1/50) | |
| | 050 | HO 32 | 1/20, 1/40, 1/60 (1/30, 1/50) | TE 35 |
| | 063 | HO 40 | 1/20, 1/40, 1/60 (1/30, 1/50) | TE 42 |
| RGOS | 080 | HO 50 | 1/20, 1/30, 1/40 1/50, 1/60 | TE 51 |
| | 110 | HO 60 | 1/20, 1/30, 1/40 1/50, 1/60 | TE 63 |
| | 140 | HO 80 | 1/20, 1/30, 1/40 1/50, 1/60 | TE 80 |
| RGCS | 180 | HO100 | 1/20, 1/30, 1/40 1/50, 1/60 | TE100 |
| | 250 | HO135 | 1/20, 1/40, 1/60 (1/30, 1/50) | TE150 |

* The above indicates the combinations of standard installations. Check the reducer load torque (Ter) and the reducer rated output torque before use.

9. About the options (motor)

Manufacturers specify the approximate service life for optional components as below. Depending on the operating frequency, a component may reach its service life quickly. Set up the maintenance schedule referring to the following service life.

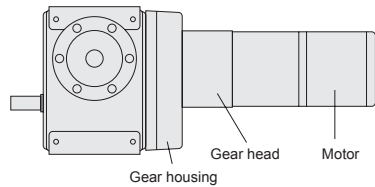
Service life suggested by the manufacturers of optional components.

| Options | Approx. service life | Manufacturer |
|-------------------------------------|-------------------------------|-----------------|
| Motor with brake, Motor with C/B | 2,000,000 operating cycles | Oriental Motors |

10. Option/ With Gear head + motor (Made by Oriental Motors)

List of gear head + motor installation

| Main model No. | RGIS RGOS RGCS | 040 | 040 050 | 050 063 | 063 | |
|------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----|---|
| Motor specification | Motor output | 25W | 40W | 60W | 90W | |
| | Induction | Single-phase 100 V | ○ | ○ | ○ | ○ |
| | | Single-phase 200V | ○ | ○ | ○ | ○ |
| | | 3-phase 200 V | ○ | ○ | ○ | ○ |
| | Reversible With Electromagnetic brake | Single-phase 100 V | ○ | ○ | ○ | ○ |
| | | Single-phase 200V | ○ | ○ | ○ | ○ |
| | | Single-phase 100 V | ○ | ○ | ○ | ○ |
| | With C/B | Single-phase 200V | ○ | ○ | ○ | ○ |
| | | 3-phase 200 V | ○ | ○ | ○ | ○ |
| | | 3-phase 200 V | ○ | ○ | ○ | ○ |
| Gear head reduction ratio | | 1/3, 1/3.6, 1/5, 1/6, 1/7.5, 1/9, 1/12.5 1/15, 1/18, 1/25, 1/30, 1/36, 1/50, 1/60 1/75, 1/90, 1/100, 1/120, 1/150, 1/180 | | | | |
| Gear housing reduction ratio | | 1/1 | | | | |



* For the belt driving system, contact CKD.

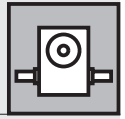
○... Standard (Given in external dimensions)

○... Semi standard

Note: Electronic brake circuit is required when intermittently driven with an induction motor.

Purchase a brake pack manufactured by Oriental Motor Company separately.

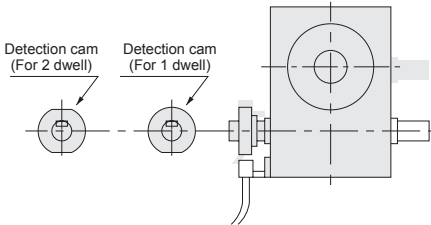
Note: Calculate the motor capacity when you select a unit.



11. Optional single-turn detection cam on the input shaft + proximity switch

Proximity switch model No.

| Body Shaft interval | SW model No. | Manufacturer |
|--------------------------------|--------------|--------------|
| 040 to 110 | E2S-Q23 | OMRON |
| 140 to 250 | E2E-X2E1 | |



12. Optional torque saver (TSF4 to TSF18) Torque guard (TGX20 to TGX70) + release detection proximity switch

Proximity switch model No.

| Torque saver Torque guard | SW model No. | Manufacturer |
|------------------------------|--------------|--------------|
| TSF4 | TL-W3MC1 | OMRON |
| TSF5 to TSF18 | TL-W5MC1 | |
| TGX20 to TGX70 | | |

Product specifications

| | | | | | | | |
|--------|--------------------------------------------|--------------------|------|---------------------|-----------------------|-------|----------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | |
| | | Basic | Flat | Compact multi-index | Wide angle | Table | Standard |
| | | | | | | | Compact |

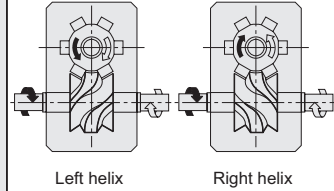
Standard

1. Standard model No. Index series

Product specifications



| A Model | | B Shaft interval | | C Indexing number (n) | | D Total index angle (θt) | | E Cam curve | | F Cam helix direction/dwell No. | | | |
|---------|----------|------------------|-------|-----------------------|-----|--------------------------|------|--------------------------|------------------------|---------------------------------|--------------------|---|---------------------|
| Compact | RGIS | 040 | 40 mm | 002 | 2 | 090 | 90° | S | MS curve (Standard) | 1 | Left helix/1 dwell | | |
| | | 050 | 50 mm | 003 | 3 | 120 | 120° | C MC curve (MCV50) | | 2 | Left helix/2 dwell | | |
| | | 063 | 63 mm | 004 | 4 | 150 | 150° | | | 3 | Left helix/3 dwell | | |
| | | 080 | 80 mm | 005 | 5 | 180 | 180° | | | 4 | Left helix/4 dwell | | |
| | Standard | | 110 | 110 mm | 006 | 6 | 210 | | 210° | T MT curve | | | |
| | | | 140 | 140 mm | 008 | 8 | 240 | 240° | | | | 5 | Right helix/1 dwell |
| | | | 180 | 180 mm | 009 | 9 | 270 | 270° | | | | 6 | Right helix/2 dwell |
| | | | 250 | 250 mm | 010 | 10 | 300 | 300° | | | | 7 | Right helix/3 dwell |
| | | | | | 012 | 12 | 330 | 330° | | | | 8 | Right helix/4 dwell |
| | | | | | 015 | 15 | | | | | | | |
| | | | | | 016 | 16 | | | | | | | |
| | | | | | 018 | 18 | | | | | | | |
| | | | | | 020 | 20 | | | | | | | |
| | | | | | 024 | 24 | | | | | | | |
| | | | | | 030 | 30 | | | | | | | |
| | | | | 032 | 32 | | | | | | | | |
| | | | | 036 | 36 | | | | | | | | |
| | | | | 040 | 40 | | | | | | | | |
| | | | | 048 | 48 | | | | | | | | |



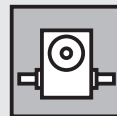
Left helix (Standard) Right helix

For details of the timing chart, refer to B-7.

Example of model No. (1)

RGIS063-008270S5F1

- Shaft interval63 mm
- Index number8
- Total index angle270°
- Cam curveMS curve
- Cam helix direction/dwell No.Right helix/1 dwell
- Shape of the output shaftFlange
- Installation position and the material of housingPosition #1 and Fc housing



| G Shape of the output shaft | | H Installation position and the material of housing | |
|-----------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| S Straight F Flange | * When a torque saver (optional) is installed, the code will be S. | 1 Position #1/Fc housing | <p>■ Position #1</p> |
| | | 2 Position #2/Fc housing | <p>■ Position #2</p> |
| | | 3 Position #3/Fc housing | <p>■ Position #3</p> |
| | | 4 Position #4/Fc housing | <p>■ Position #4</p> |
| | | 5 Position #5/Fc housing | <p>■ Position #5</p> |
| | | 6 Position #6/Fc housing | <p>■ Position #6</p> |
| | | A Position #1/Al housing | |
| | | B Position #2/Al housing | |
| | | C Position #3/Al housing | |
| | | D Position #4/Al housing | |
| | | E Position #5/Al housing | |
| | | F Position #6/Al housing | |
| | | * Fc housing comes as standard. For Aluminum housing specifications, the optional specifications for the shaft interval are between 40 and 80 mm. (Consult the delivery schedule with us.) | |

a: Oil supply port b: Oil level gauge c: Drain port

Example of model No. (2)

RGIS110-024090S2S5

- Shaft interval 110 mm
- Index number 24
- Total index angle 90° (45° × 2)
- Cam curve MS curve
- Cam helix direction/dwell No. Left helix/2 dwell
- Shape of the output shaft Straight
- Installation position and the material of housing Position #5 and Fc housing

| | | | | | |
|--------|-----------------------|------------|-------|----------|---------|
| Flat | Compact multi-index | Wide angle | Table | Standard | Compact |
| | Roller gear cam drive | Wide angle | Table | Standard | Compact |
| | Parallel cam drive | Wide angle | Table | Standard | Compact |
| Basic | Flat | Wide angle | Table | Standard | Compact |
| | | | | | |
| Option | Flat | Wide angle | Table | Standard | Compact |
| | | | | | |

Standard

2-1. Model No. with options Common for index, oscillating, reducer series



Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Flat

Basic

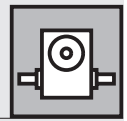
Parallel cam drive

Circular

Linear

Option

| Input/Output shaft specification code | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I Input shaft specification code (left shaft) | J Input shaft specification code (right shaft) | K Output shaft specification code |
| <p>N</p> <p>Stepped area Output shaft Left shaft N□□</p> <p>K</p> <p>K□□</p> <p>C</p> <p>C□□</p> <p>J</p> <p>J□□ (Proximity switch)</p> <p>H</p> <p>H□□</p> <p>W</p> <p>W□□ E□□</p> <p>G</p> <p>G□□</p> | <p>N</p> <p>□N□ Right shaft</p> <p>K</p> <p>□K□</p> <p>C</p> <p>□C□</p> <p>J</p> <p>□J□ (Proximity switch)</p> <p>H</p> <p>□H□</p> <p>W</p> <p>□W□ □E□</p> <p>G</p> <p>□G□</p> | <p>N</p> <p>□□N</p> <p>K</p> <p>□□K</p> <p>F A X C</p> <p>□□F □□X □□A □□C</p> <p>S B Y D</p> <p>Note 3 □□S □□Y □□B □□D</p> |
| <p>N Standard (with keyway)</p> <p>K No keyway</p> <p>C Cutoff * This is cut off at the stepped spot. It will protrude from the housing. Verify the dimensions with the diagram.</p> <p>J Input shaft - with rotation detection cam + proximity switch (1 station) * Double or higher are custom order items. (When the input shaft is rotated in both directions, double may be required.) * The proximity switch detects 2 spots for the 2 dwell setup (including oscillation). If the dwell No. is 3 or greater, a custom order is required.</p> <p>H With the hollow shaft geared motor * Since the specification for the motor is required, determine "Hollow shaft geared motor installation specification code."</p> <p>W With the worm reducer (W: HO reducer, E: TE reducer) * Since the specification for the worm reducer is required, determine "Worm reducer installation specification code."</p> <p>G Gear head + motor * Since the specifications for the gear head and the motor are required, determine "Gear head and motor installation specification code."</p> | <p>N Standard (with keyway)</p> <p>K No keyway (straight shaft)</p> <p>F With Torque saver (TSF)</p> <p>A With Torque saver (TSF) (Output shaft without keyway)</p> <p>X With Torque guard (TGX)</p> <p>C With Torque guard (TGX) (Output shaft without keyway)</p> <p>S With Torque saver (TSF) + proximity switch for release detection</p> <p>B With Torque saver (TSF) + proximity switch for release detection (without keyway on the output shaft)</p> <p>Y With Torque guard (TGX) + proximity switch for release detection</p> <p>D With Torque guard (TGX) + proximity switch for release detection (without keyway on the output shaft)</p> | <p>Since the specifications for a torque saver and a torque guard are required when F, A, X, C, S, B, Y, or D is selected, determine "Torque saver/guard installation specification code."</p> |



▼ When a torque saver and a torque guard are installed

(Refer to next page)

▼ Installation specification code of the hollow shaft geared motor * Refer to pages D-665 to D-668.

| (L) Motor type | | (M) Motor output | | Application index size | (N) Rated voltage | (O) Reduction ratio | (P) Driving method | | |
|----------------|-------------------|------------------|---------|------------------------|-------------------|---------------------|--------------------|---|----------------------|
| G | Hypoid Gear | G | 0.1 kW | | | | 050 | S | Three-phase 200 V |
| | | H | 0.2 kW | | | | | | |
| | | H | 0.2 kW | 063 | | | | | |
| | | J | 0.4 kW | | | | | | |
| | | J | 0.4 kW | 080 | | | | | |
| | | K | 0.75 kW | | | | | | |
| | | K | 0.75 kW | 110 | | | | | |
| L | 1.5 kW | | | | | | | | |
| L | 1.5 kW | 140 | | | | | | | |
| M | 2.2 kW | | | | | | | | |
| T | | M | 2.2 kW | 180 | | | | | |
| S | Helical Worm gear | N | 3.7 kW | | | | | | |
| | | P | 5.5 kW | | 250 | | | | |
| | | Q | 7.5 kW | | | | | | |

(L) G:Nissei T:Tsubaki Emerson S:SEW

▼ Table of the combinations of motor output and reduction ratio

| (M) Motor output | | (O) Reduction ratio | | | | | | | | | | | | |
|------------------|---------|---------------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| G | 0.1 kW | Size | A | B | C | D | E | F | G | H | J | K | L | M |
| | | H | 0.2 kW | 050 | — | — | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | |
| H | 0.2 kW | 063 | — | — | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| J | 0.4 kW | | 1/10 | 1/15 | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| J | 0.4 kW | 080 | — | — | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| K | 0.75 kW | | 1/10 | 1/15 | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| K | 0.75 kW | 110 | — | — | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| L | 1.5 kW | | 1/10 | 1/15 | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| L | 1.5 kW | 140 | — | — | 1/20 | 1/25 | 1/30 | 1/40 | 1/50 | 1/60 | | | | |
| M | 2.2 kW | | 1/10 | 1/15 | 1/20 | 1/25 | 1/30 | 1/40 | 1/49.286 | 1/60 | | | | |
| M | 2.2 kW | 180 | 1/20.37 | 1/23.33 | 1/26.93 | 1/29.63 | 1/34.80 | 1/36.85 | 1/41.89 | 1/46.40 | | | | |
| N | 3.7 kW | | 1/12.07 | 1/15.28 | 1/20.99 | 1/25.07 | 1/28.41 | 1/32.38 | 1/35.94 | 1/41.07 | 1/43.33 | 1/49.38 | 1/53.87 | 1/56.92 |
| P | 5.5 kW | 250 | 1/19.70 | 1/25.50 | 1/31.43 | 1/34.96 | 1/39.10 | 1/44.03 | 1/47.91 | 1/57.00 | | | | |
| Q | 7.5 kW | | 1/10.93 | 1/15.64 | 1/19.70 | 1/25.50 | 1/31.43 | 1/34.96 | 1/39.10 | 1/44.03 | | | | |

* The above indicates the combinations of standard installations.

Use this after verifying the motor capacity (Pe), the allowable output shaft torque (Ttr), the load torque of the geared motor (Ter).

▼ When a worm reducer is installed

(Refer to next page)

▼ When a gear head and a motor are installed

(Refer to next page)

Product specifications

Compact multi-index
Wide angle
Table
Standard
Compact

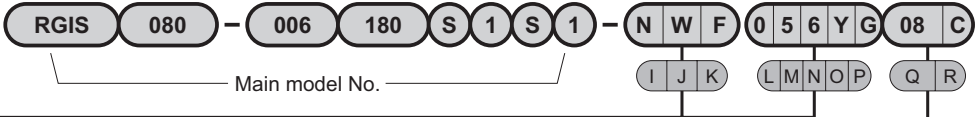
Roller gear cam drive
Flat
Basic

Parallel cam drive
Linear
Circular

Option

Standard

2-1. Model No. with options Common for index, oscillating, reducer series



Product specifications

Compact
Standard
Table
Wide angle
Compact multi-index
Flat
Basic
Parallel cam drive
Circular
Pico and
Pulse drive
Option


▼ When a worm reducer is installed

| L M N O P | | Worm reducer installation specification code | | | | | |
|-----------|--------------|----------------------------------------------|------------------------|---|---------------|-----------------------------------------------------|--------------------|
| L M | Reducer size | N | Reduction ratio | O | Clutch Brake: | P | Mounting direction |
| 03 | HO32, TE35 | 1 | 1/10 (TE reducer only) | Y | Clutch | Left shaft installation Right shaft installation | A |
| 04 | HO40, TE42 | 2 | 1/20 | | Brake: Yes | | B |
| 05 | HO50, TE51 | 3 | 1/30 | N | Clutch | | C |
| 06 | HO60, TE63 | 4 | 1/40 | | Brake: No | | D |
| 08 | HO80, TE80 | 5 | 1/50 | | | | J |
| 10 | HO100, TE100 | 6 | 1/60 | | | | K |
| 13 | HO135, — | | | | | | L |
| 15 | —, TE150 | | | | | | M |
| | | | | | | | E |
| | | | | | | | F |
| | | | | | | | G |
| | | | | | | | H |
| | | | | | | | N |
| | | | | | | | P |
| | | | | | | | Q |
| | | | | | | | R |
| | | | | | | | AR |
| | | | | | | | BR |
| | | | | | | | CR |
| | | | | | | | DR |
| | | | | | | | ER |
| | | | | | | | FR |
| | | | | | | | GR |
| | | | | | | | HR |

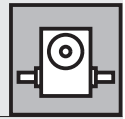
* Those of 1/30 and 1/50 for HO32, HO40 and HO135 have special ratio. Verify the delivery schedule.
* Refer to D-595 to 632.

▼ When a gear head and a motor are installed

| L M N O P | | Gear head + motor installation specification code | | | | | | | |
|-----------|------------|---------------------------------------------------|--------------|---|---------------|---|---------------------------|---|----------------|
| L | Motor type | M | Motor output | N | Rated voltage | O | Gear head reduction ratio | P | Driving method |
| E | Induction | C | 25 W | A | Single-phase | A | 1/3 | L | 1/30 |
| R | Reversible | D | 40 W | | 100 V | B | 1/3.6 | M | 1/36 |
| B | With brake | E | 60 W | C | Single-phase | C | 1/5 | N | 1/50 |
| C | With C/B | F | 90 W | | 200 V | D | 1/6 | P | 1/60 |
| | | | | S | Three-phase | E | 1/7.5 | Q | 1/75 |
| | | | | | 200 V | F | 1/9 | R | 1/90 |
| | | | | | | G | 1/12.5 | S | 1/100 |
| | | | | | | H | 1/15 | T | 1/120 |
| | | | | | | J | 1/18 | U | 1/150 |
| | | | | | | K | 1/25 | V | 1/180 |
| | | | | | | | | G | Gear drive |



* When the reduction ratio is between 1/3 and 1/9, the input shaft rotational speed may reach 200 rpm or higher. Special specification model number is required.



▼ When a torque saver is installed

| Ⓚ Ⓡ Torque saver Mounting specification code | | | Application Index Size | |
|-------------------------------------------------|-------|---------------------------|------------------------------|---------|
| Ⓚ TSF size | | Ⓡ Release Torque range | | |
| 04 | TSF4 | A B C D | 040 | |
| 05 | TSF5 | | A | 040/050 |
| 06 | TSF6 | | B | 050/063 |
| 08 | TSF8 | | C | 080 |
| 11 | TSF11 | | D | 110 |
| 14 | TSF14 | | | 140 |
| 18 | TSF18 | | | 180 |

* While a torque saver/guard is installed onto the output shaft and when none of the worm reducer, the gear head & motor and the hollow shaft geared motor can be installed onto the input shaft, insert a hyphen "-" at Ⓚ and continue with the torque saver/guard installation specification code.

Example: RGIS080-006270S1S1-NNF-08D
RGIS110-008180S1S1-NNX-70L

* For a specification of index number n exceeding 12, a suitable release torque may not be configured if a torque saver/guard is installed. Verify this when you select a model.

* When you specify the release (trip) torque of a torque saver/guard, notify CKD of the value. Otherwise, the product will be shipped adjusted at the min. value within the adjusting range.
(Refer to D635-663.)

* The proximity switch for release detection of a torque saver/guard is the NO type. An NC type is also available.

▼ When a torque guard is installed

| Ⓚ Ⓡ Torque guard Mounting specification code | | | Application Index Size | |
|-------------------------------------------------|-------|------------------------|------------------------------|-----|
| Ⓚ TGX size | | Ⓡ Trip Torque range | | |
| 20 | TGX20 | L M H | 040/050 | |
| 35 | TGX35 | | LC | 063 |
| 50 | TGX50 | | MC | 080 |
| 70 | TGX70 | | HC | 110 |

Standard

2-2. Examples of model numbers with options / 3. Custom specification model No.

When you place an order with a model number, ensure that it exactly matches what you ordered. Even if 1 letter is incorrectly written, the product will be different with different specifications. In order for us to deliver what you really want, carefully determine the model number referring to the following examples.

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Roller gear cam drive

Flat

Basic

Parallel cam drive

Circular

Linear

Option

Example of model No. (3)

RGIS110-016090S1S5-NJN
 Input shaft specification
 Left shaft: Standard
 Right shaft: Input shaft - with rotation detection cam + proximity switch (1 station)
 Output shaft specification
 Standard

Example of model No. (4)

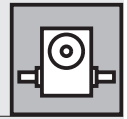
RGIS180-008270S1S1-WNN104YL
 Input shaft specification
 Left shaft: Worm reducer installed
 Right shaft: Standard
 Output shaft specification: Standard
 Worm reducer installation specification
 Reducer size: HO100
 Reduction ratio: 1/40
 Clutch/Brake: Yes
 Mounting direction: L

Example of model No. (5)

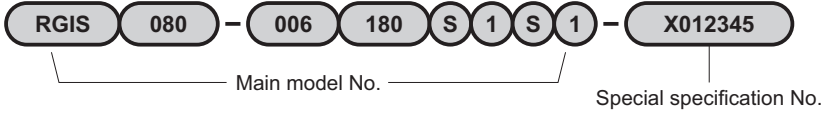
RGIS040-004270S1S1-NNS-04B
 Input shaft specification
 Left shaft: Standard
 Right shaft: Standard
 Output shaft specification: Torque saver
 + Proximity switch for release detection installed
 Torque saver mounting specification
 TSF size: TSF4
 Release torque range: B

Example of model No. (6)

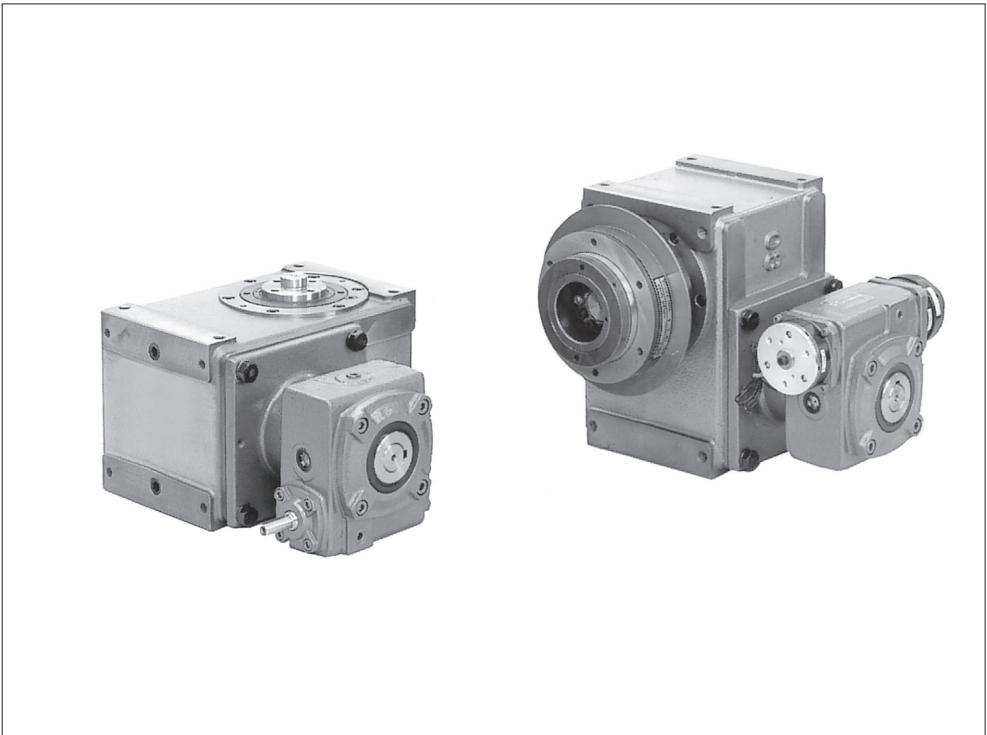
RGIS063-008270S1SA-JWF046YG06C
 Input shaft specification
 Left shaft: Input shaft - with rotation detection cam + proximity switch (1 station)
 Right shaft: Worm reducer installed
 Output shaft specification: Torque saver installed
 Worm reducer installation specification
 Reducer size: HO40
 Reduction ratio: 1/60
 Clutch/Brake: Yes
 Mounting direction: G
 Torque saver mounting specification
 TSF size: TSF6
 Release torque range: C



● Special specification model number Common for index, oscillating, reducer series



- * Add "-X (6 digit number)" after the main model No. as the special specification number.
- The special specification model number shall be determined after the consultation with the customer.
- Options other than the standard are available upon request. Please provide CKD with the specifications.
- * High speed specifications (input shaft rotational speed of 200 rpm or higher) are deemed to be special specifications.



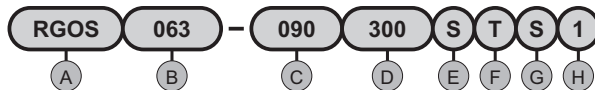
Product specifications

| | | | |
|-----------------------|---------------------|------------|-------|
| Roller gear cam drive | Compact | Standard | Table |
| | Compact multi-index | Wide angle | |
| | Flat | Basic | |
| Parallel cam drive | | | |
| | | | |
| Pick and Place drive | Linear | Circular | |
| | Option | | |

Standard

1. Standard model No. Oscillating series

Product specifications

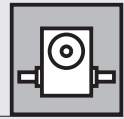


| A Model | | B Shaft interval | | C Oscillating angle (ψ) | | D Total index angle (θ t) | | E Cam curve | | F Orbit pattern | |
|---------|-----|------------------|-----|--------------------------------|-----|-----------------------------------|---|---------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| RGOS | 040 | 40 mm | 120 | 120° | 180 | 180° (90°×2) | S | MS curve (Standard) | T (Standard) | When the input shaft starts to rotate from the rotation reference point, the output shaft rotates in sequence from 1 and 2 as in the figure. Output shaft oscillation Reference position (keyway) | |
| | 050 | 50 mm | 090 | 90° | 240 | 240° (120°×2) | C | MC curve (MCV50) | | | |
| | 063 | 63 mm | 060 | 60° | 300 | 300° (150°×2) | T | MT curve | | | |
| | 080 | 80 mm | 045 | 45° | 360 | 360° (180°×2) | | | | | |
| | 110 | 110 mm | 030 | 30° | | | | | | | |
| | 140 | 140 mm | | | | | | | | | |
| | 180 | 180 mm | | | | | | | | | |
| | 250 | 250 mm | | | | | | | | | |
| | | | | | | | | | | S When the input shaft starts to rotate from the rotation reference point, the output shaft rotates in sequence from 1 and 2 as in the figure. Output shaft oscillation Reference position (keyway) | |

Example of model No. (1)

RGOS110-045180STS1

- Shaft interval 110 mm
- Oscillating angle 45°
- Total index angle 180° (90° × 2)
- Cam curve MS curve
- Orbit pattern T
- Shape of the output shaft Straight
- Installation position and the material of housing Position #1 and Fc housing



| G Shape of the output shaft | | H Installation position and the material of housing | |
|-----------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S Straight F Flange | * When a torque saver (optional) is installed, the code will be S. | 1 Position #1/Fc housing 2 Position #2/Fc housing 3 Position #3/Fc housing 4 Position #4/Fc housing 5 Position #5/Fc housing 6 Position #6/Fc housing | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>■ Position #1</p> </div> <div style="text-align: center;"> <p>■ Position #2</p> </div> </div> |
| | | A Position #1/Al housing B Position #2/Al housing C Position #3/Al housing D Position #4/Al housing E Position #5/Al housing F Position #6/Al housing | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>■ Position #3</p> </div> <div style="text-align: center;"> <p>■ Position #4</p> </div> </div> |
| | | <p>* Fc housing comes as standard. For Aluminum housing specifications, the optional specifications for the shaft interval are between 40 and 80 mm. (Consult the delivery schedule with CKD.)</p> | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>■ Position #5</p> </div> <div style="text-align: center;"> <p>■ Position #6</p> </div> </div> |

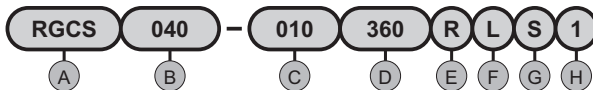
a: Oil supply port b: Oil level gauge c: Drain port

| | | | | | | | | | | | | |
|--------|--------------------------------------------|--------------------|--|-------|------|---------------------|-----------------------|--|------------|-------|----------|---------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | Basic | Flat | Compact multi-index | Roller gear cam drive | | Wide angle | Table | Standard | Compact |
| | | Table | | | | | | | | | | |
| | | Wide angle | | | | | | | | | | |

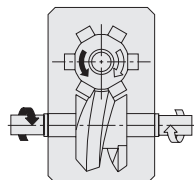
Standard

1. Standard model No. Reducer series

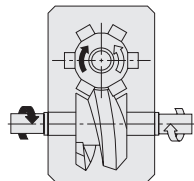
Product specifications



| A Model | | B Shaft interval | | C Reduction ratio (i _d) | | D Total index angle (θ _t) | | E Cam curve | | F Spiral direction of the cam | | | | |
|---------|-----|------------------|-----|-------------------------------------|-----|---------------------------------------|---|----------------------------------|---|-------------------------------|--|--|--|--|
| RGCS | 040 | 40 mm | 003 | 1/3 | 360 | 360° | R | Constant velocity rotation Curve | L | Left helix | | | | |
| | 050 | 50 mm | 004 | 1/4 | | | | | R | Right helix | | | | |
| | 063 | 63 mm | 005 | 1/5 | | | | | | | | | | |
| | 080 | 80 mm | 006 | 1/6 | | | | | | | | | | |
| | 110 | 110 mm | 008 | 1/8 | | | | | | | | | | |
| | 140 | 140 mm | 009 | 1/9 | | | | | | | | | | |
| | 180 | 180 mm | 010 | 1/10 | | | | | | | | | | |
| | 250 | 250 mm | 012 | 1/12 | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |



Left helix



Right helix

For details of the timing chart, refer to B-7.

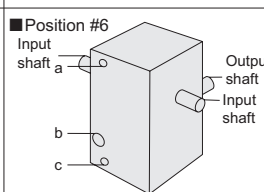
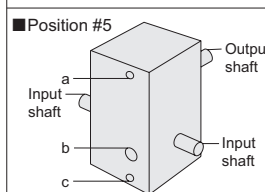
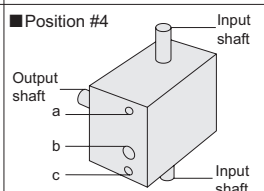
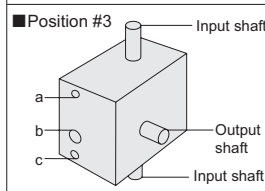
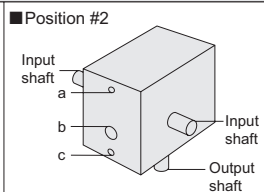
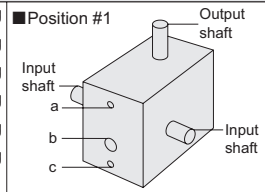
Example of model No. (1)

RGCS050-005360RRF1

- Shaft interval 50 mm
- Reduction ratio 1/5
- Total index angle 360°
- Cam curve Constant velocity rotation curve
- Spiral direction of the cam Right helix
- Shape of the output shaft Flange
- Installation position and the material of housing Position #1 and Fc housing



| G Shape of the output shaft | | H Installation position and the material of housing | |
|-----------------------------|--------------------------------------------------------------------|-----------------------------------------------------|------------------------|
| S | Straight | 1 | Position #1/Fc housing |
| F | Flange | 2 | Position #2/Fc housing |
| | * When a torque saver (optional) is installed, the code will be S. | 3 | Position #3/Fc housing |
| | | 4 | Position #4/Fc housing |
| | | 5 | Position #5/Fc housing |
| | | 6 | Position #6/Fc housing |
| | | A | Position #1/Al housing |
| | | B | Position #2/Al housing |
| | | C | Position #3/Al housing |
| | | D | Position #4/Al housing |
| | | E | Position #5/Al housing |
| | | F | Position #6/Al housing |



a: Oil supply port b: Oil level gauge c: Drain port

| | | | | | | | | | | | | |
|---------|----------|-------|-----------------------|------------|---------------------|------|-------|--------------------|---------------------|--------|----------|--------|
| Compact | Standard | Table | Roller gear cam drive | Wide angle | Compact multi-index | Flat | Basic | Parallel cam drive | Plan and Face drive | Linear | Circular | Option |
|---------|----------|-------|-----------------------|------------|---------------------|------|-------|--------------------|---------------------|--------|----------|--------|

Difference between shafts: **40** mm

Straight shaft

Standard

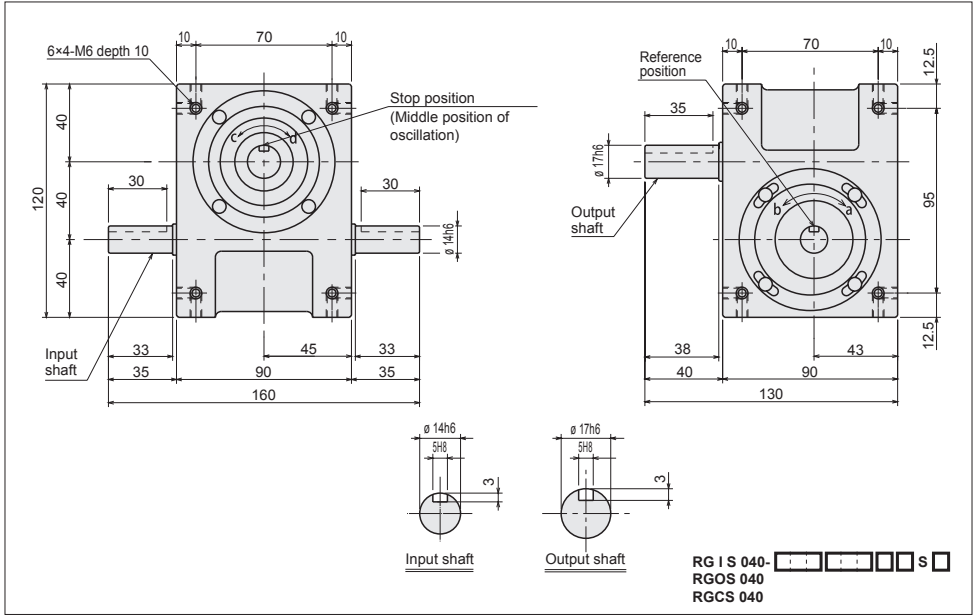
| | |
|------------|-------------------|
| Index | RG I S 040 |
| Oscillator | RGOS 040 |
| Reducer | RGCS 040 |

● Standard specifications

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive
Compact multi-index
Flat
Basic
Parallel cam drive
Circular
Linear
Option

Dimensions

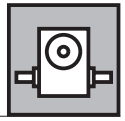


● Oil fill/drain port (Rc 1/4) ○ Oil level gauge

Installation position and oil supply/drain port and oil level gauge positions

Orientations 1 to 4 (ø20)
Orientations 5 to 6 (ø30)

| Installation position | 1 | 2 | 3 |
|-----------------------|-----------------------------------------|----------------|-----------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | The dimensions in () are for RGOS. |
| Installation position | 4 | 5 | 6 |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | The dimensions in () are for RGOS. | | |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 1300(800) | 800(500) | Internal frictional torque (Tin) | N·m | 1.9 |
| Allowable radial force | N | 1200(700) | 750(450) | Product weight | kg | 5(3) |
| Allowable bending moment | N·m | 35(20) | - | Oil level | ℓ | 0.1 |
| Moment of inertia | kg·m ² | 6.40 × 10 ⁻⁵ | 4.61 × 10 ⁻⁵ | Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±60 |
| | 2 dwell | ±120 |
| | 3 dwell | ±180 |
| | 4 dwell | ±240 |
| Repeatability | | 30 |

| Oscillating accuracy (sec.) | |
|-----------------------------|------|
| Indexing accuracy | ±120 |
| Repeatability | 30 |

* For dwell accuracy, please contact us.

List of index angles

Index series **RGIS 040** Cam curve / MS

| Total index angle(θt) | | Index number(n) | | | | | | | | |
|-----------------------|----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number(n) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 040** Cam curve / MS

| Total index angle(θt) | | Oscillating angle (ψ) | | | | | |
|-----------------------|-----|-----------------------|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | 90 | 120 | 180 | 240 | 300 | 360 |
| | 120 | | | | | | ○ |
| | 90 | | | | | ○ | ○ |
| | 60 | | | ○ | ○ | ○ | ○ |
| | 45 | | | ○ | ○ | ○ | ○ |
| | 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 040**

| Total index angle(θt) | | Reduction ratio(id) | |
|-----------------------|------|---------------------|---|
| Reduction ratio(id) | | 360 | |
| | 1/3 | | ○ |
| | 1/4 | | ○ |
| | 1/5 | | ○ |
| | 1/6 | | ○ |
| | 1/8 | | ○ |
| | 1/9 | | ○ |
| | 1/10 | | ○ |
| | 1/12 | | ○ |

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 040 |
| Oscillator | RGOS 040 |
| Reducer | RGCS 040 |

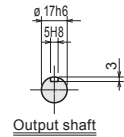
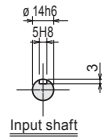
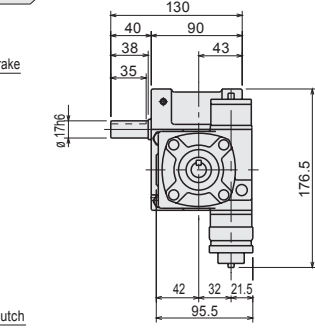
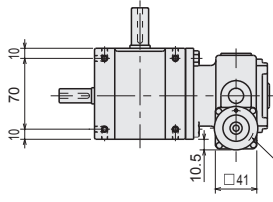
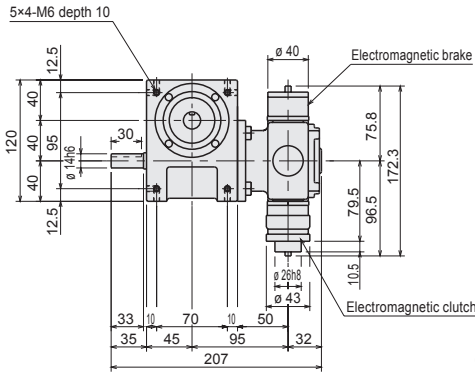
● Dimensions with options

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive

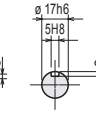
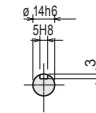
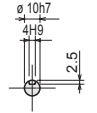
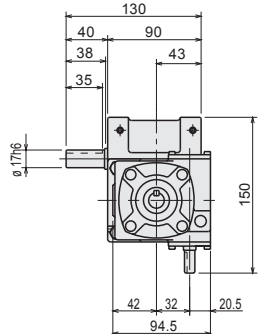
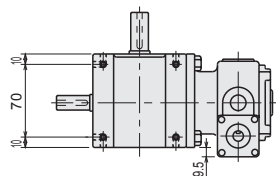
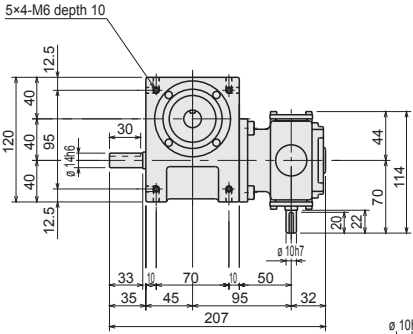
Flat
Basic
Parallel cam drive
Circular
Linear
Option

With worm reducer (with HO32-C/B)



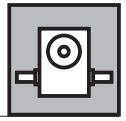
RG I S 040- [] [] [] [] [] S [] -NWN03 [] YG
 RGOS 040
 RGCS 040

With worm reducer (without HO32-C/B)

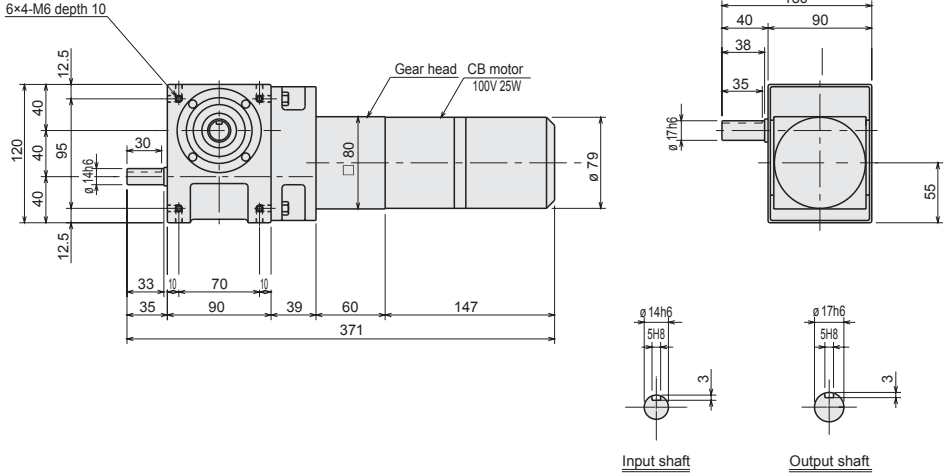


Reducer input shaft Input shaft Output shaft

RG I S 040- [] [] [] [] [] S [] -NWN03 [] NG
 RGOS 040
 RGCS 040

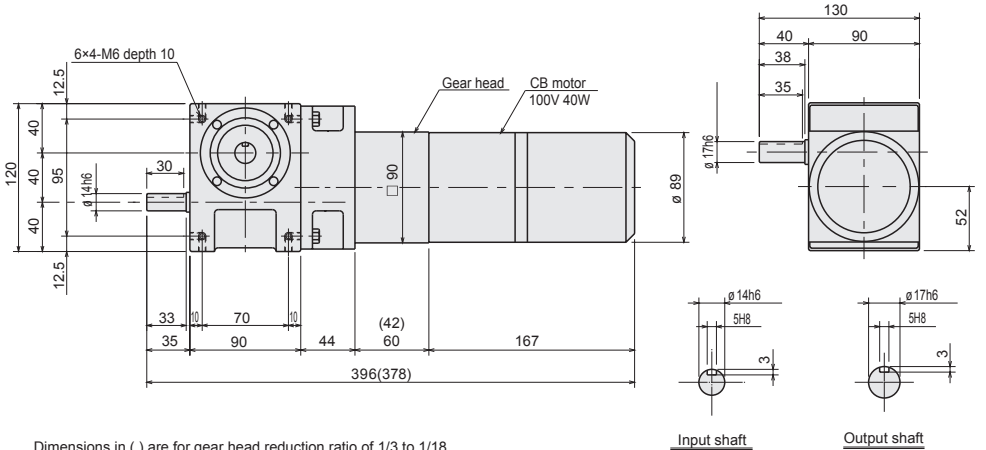


With Gear head + motor (25 W with C/B)



RG I S 040- [] [] [] [] [] S [] -NGNCCA [] G
 RGOS 040
 RGCS 040

With Gear head + motor (40W with C/B)



Dimensions in () are for gear head reduction ratio of 1/3 to 1/18.

RG I S 040- [] [] [] [] [] S [] -NGNCA [] G
 RGOS 040
 RGCS 040

Product specifications

| | | | | | | | | |
|--------|----------|--------------------|-------|------|---------------------|-----------------------|----------|---------|
| Option | Linear | Parallel cam drive | Basic | Flat | Compact multi-index | Roller gear cam drive | Standard | Compact |
| | Circular | | | | | Wide angle | | |
| | Table | | | | | | | |

| | |
|------------|-------------------|
| Index | RG I S 040 |
| Oscillator | RGOS 040 |
| Reducer | RGCS 040 |

● Dimensions with options

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive

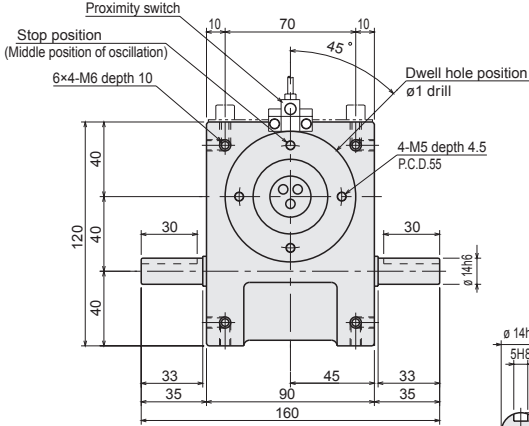
Flat

Basic
Parallel cam drive

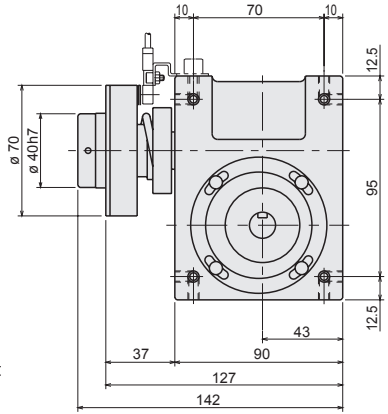
Linear
Circular
Face and
Plate drive

Option

With Torque saver (TSF4)

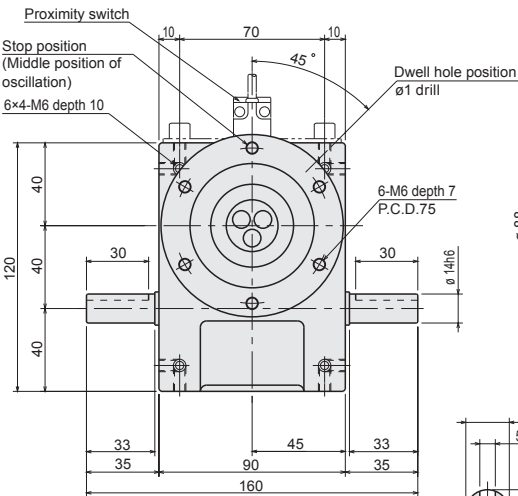


Input shaft

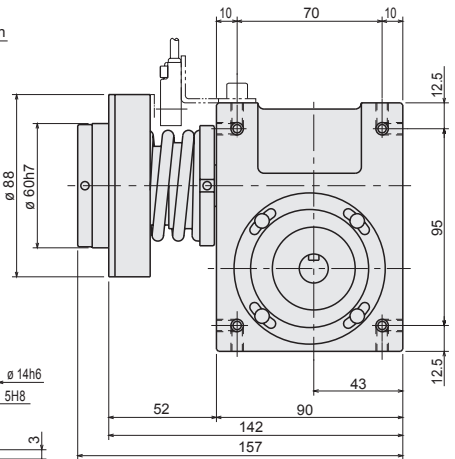


RG I S 040- [] [] [] [] S [] -NNF-04 []
 RGOS 040
 RGCS 040

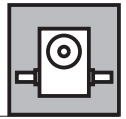
With Torque saver (TSF5)



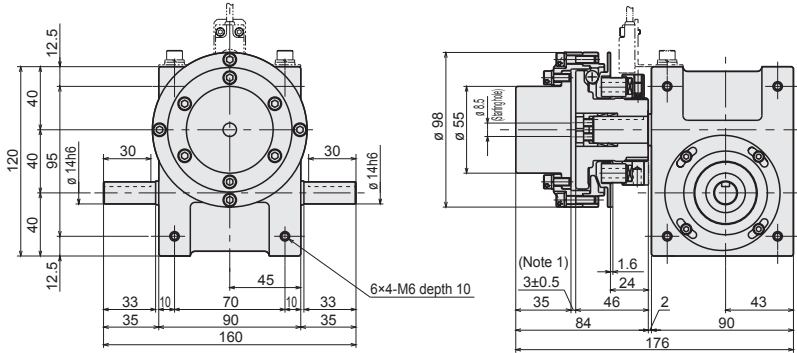
Input shaft



RG I S 040- [] [] [] [] S [] -NNF-05 []
 RGOS 040
 RGCS 040



With Torque guard (TGX20)



Note 1: Attach to the equipment within the dimensions specified.

RG I S 040- [] [] [] [] S [] -NNX-20 []
 RGOS 040
 RGCS 040

Product specifications

| | | | | | | | | | |
|--------|--------------------------------------------|---------------------|--|--|-----------------------|--|--|----------|---------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | | Standard | Compact |
| | | Basic | | | Table | | | | |
| | | Flat | | | Wide angle | | | | |
| | | Compact multi-index | | | Table | | | | |

Difference between shafts: **40** mm Flange shaft

Standard

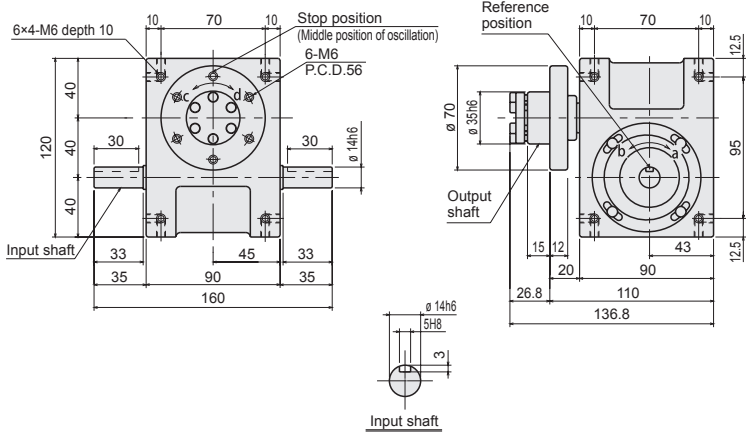
● Standard specifications

| | |
|------------|-------------------|
| Index | RG I S 040 |
| Oscillator | RGOS 040 |
| Reducer | RGCS 040 |

Product specifications



Dimensions



RG I S 040- F

RGOS 040

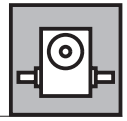
RGCS 040

- Oil fill/drain port (Rc 1/4) ○ Oil level gauge
- Orientations 1 to 4(ø20)
Orientations 5 to 6(ø30)

Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 |
|-----------------------|--------------------------------------------|-----------------------|--------------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | <p>The dimensions in () are for RGOS.</p> |
| Installation position | 4 | 5 | 6 |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | <p>The dimensions in () are for RGOS.</p> | | |

Compact
Standard
Table
Wide angle
Compact multi-index
Flat
Basic
Parallel cam drive
Circular
Linear
Option



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 1300(800) | 800(500) | Internal frictional torque (Tin) | N·m | 1.9 |
| Allowable radial force | N | 1200(700) | 750(450) | Product weight | kg | 5(3) |
| Allowable bending moment | N·m | 35(20) | - | Oil level | ℓ | 0.1 |
| Moment of inertia | kg·m ² | 3.14 × 10 ⁻⁴ | 4.61 × 10 ⁻⁵ | Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±60 |
| | 2 dwell | ±120 |
| | 3 dwell | ±180 |
| | 4 dwell | ±240 |
| Repeatability | | 30 |

| Oscillating accuracy (sec.) | |
|-----------------------------|------|
| Indexing accuracy | ±120 |
| Repeatability | 30 |

* For dwell accuracy, please contact us.

List of index angles

Index series RGIS 040 Cam curve / MS

| Total index angle(θt) | | Index number(n) | | | | | | | | |
|-----------------------|----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series RGOS 040 Cam curve / MS

| Total index angle(θt) | | Oscillating angle (ψ) | | | | | |
|-----------------------|-----|-----------------------|-----|-----|-----|-----|-----|
| | | 90 | 120 | 180 | 240 | 300 | 360 |
| | 120 | | | | | | ○ |
| | 90 | | | | | ○ | ○ |
| | 60 | | | ○ | ○ | ○ | ○ |
| | 45 | | | ○ | ○ | ○ | ○ |
| | 30 | | | ○ | ○ | ○ | ○ |

Reducer series RGCS 040

| Total index angle(θt) | | 360 | |
|-----------------------|------|-----|---|
| Reduction ratio(id) | | | |
| | 1/3 | | ○ |
| | 1/4 | | ○ |
| | 1/5 | | ○ |
| | 1/6 | | ○ |
| | 1/8 | | ○ |
| | 1/9 | | ○ |
| | 1/10 | | ○ |
| | 1/12 | | ○ |

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 040 |
| Oscillator | RGOS 040 |
| Reducer | RGCS 040 |

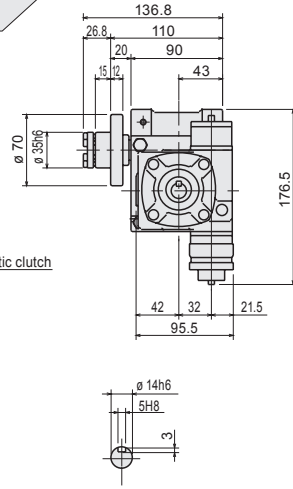
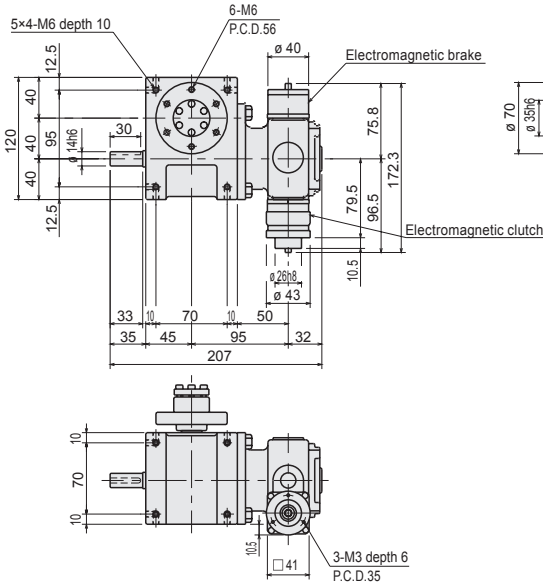
● Dimensions with options

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive

Flat
Basic
Parallel cam drive
Circular
Linear
Option

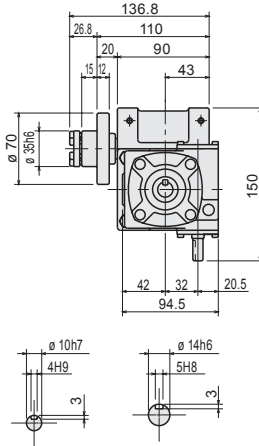
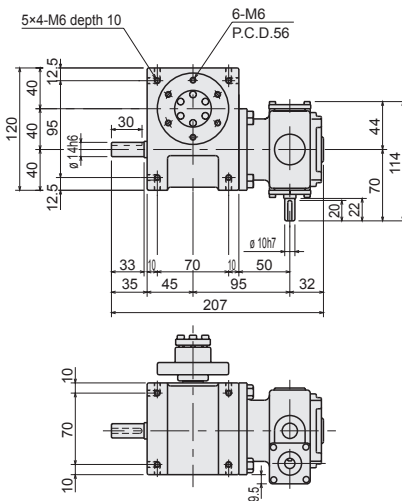
With worm reducer (with HO32-C/B)



Input shaft

RG I S 040- [] [] [] [] [] [] F [] -NWN03 [] YG
 RGOS 040
 RGCS 040

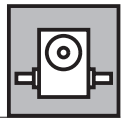
With worm reducer (without HO32-C/B)



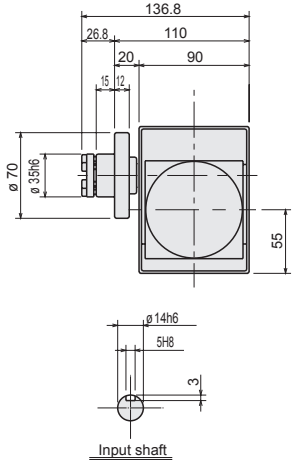
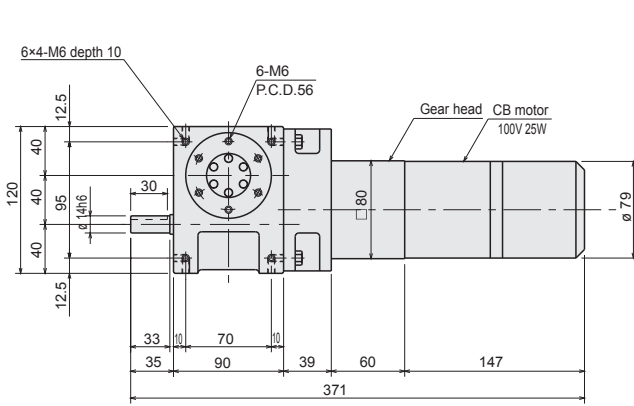
Reducer input shaft

Input shaft

RG I S 040- [] [] [] [] [] [] F [] -NWN03 [] NG
 RGOS 040
 RGCS 040

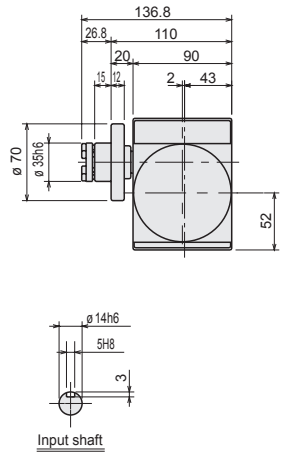
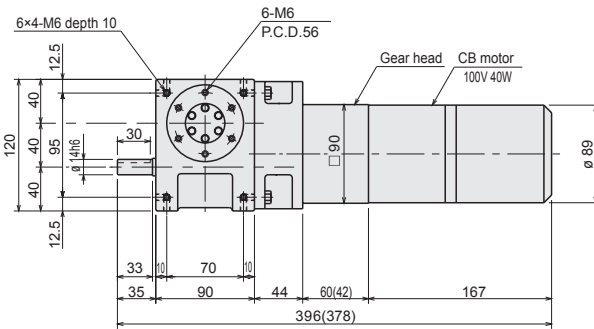


With Gear head + motor (25 W with C/B)



RG I S 040- [] [] [] [] [] [] [] [] [] [] F [] -NGNCCA [] G
 RGOS 040
 RGCS 040

With Gear head + motor (40W with C/B)



Dimensions in () are for gear head reduction ratio of 1/3 to 1/18.

RG I S 040- [] [] [] [] [] [] [] [] [] [] F [] -NGNCDA [] G
 RGOS 040
 RGCS 040

Product specifications

| | | | |
|-----------------------|-------------------------|----------|----------|
| Option | Plan and Pitch drive | Linear | Circular |
| | Parallel cam drive | | |
| | Basic | Table | Compact |
| Flat | Wide angle | Standard | Compact |
| Roller gear cam drive | Table | Standard | Compact |
| Compact multi-index | Wide angle | Table | Compact |

Difference between shafts: **50 mm** Straight shaft

Standard

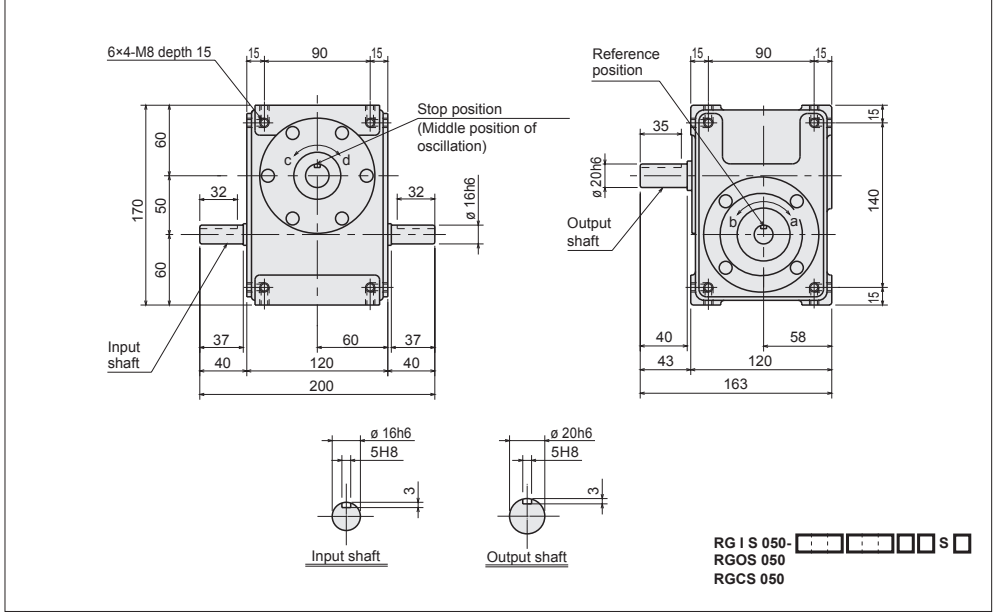
| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Standard specifications

Product specifications

Compact
Standard
Table
Roller gear cam drive
Wide angle
Compact multi-index
Flat
Basic
Parallel cam drive
Circular
Linear
Option

Dimensions

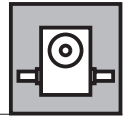


Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 |
|-----------------------|----------------|----------------|--------------------------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | <small>The dimensions in () are for RGOS.</small> |

- Oil fill/drain port (Rc1/4)
- Oil level gauge (ø 20)

| Installation position | 4 | 5 | 6 | |
|-----------------------|--------------------------------------------------------|----------------|-----------|------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | <small>The dimensions in () are for RGOS.</small> | | | |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 2200 (1300) | 1200 (700) | Internal frictional torque (Tin) | N·m | 3.0 |
| Allowable radial force | N | 2000 (1200) | 900 (550) | Product weight | kg | 11 (7.5) |
| Allowable bending moment | N·m | 55(35) | - | Oil level | ℓ | 0.5 |
| Moment of inertia | kg·m ² | 2.20 × 10 ⁻⁴ | 2.57 × 10 ⁻⁴ | Paint color | | Silver |

List of index angles

Index series **RGIS 050** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | ☆2 | | | | | | | ○ | ○ | ○ |
| | ☆3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆4 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆24 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 050** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | | |
| ★120 | | | | | | | ○ |
| ★ 90 | | | | | | ○ | ○ |
| ★ 60 | | | ○ | ○ | ○ | ○ | ○ |
| ★ 45 | | | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ |

(Oscillating angle marked with ★)

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±90 |
| Repeatability | 15 |

(Oscillating angle other than ★)

| Oscillating accuracy (sec.) | |
|-----------------------------|------|
| Indexing accuracy | ±120 |
| Repeatability | 30 |

* For the dwell accuracy, please contact CKD.

Accuracy (Index number of ☆)

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±90 |
| | 3 dwell | ±135 |
| | 4 dwell | ±180 |
| Repeatability | | 15 |

(Index number other than ☆)

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±60 |
| | 2 dwell | ±120 |
| | 3 dwell | ±180 |
| | 4 dwell | ±240 |
| Repeatability | | 30 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 050**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Roller gear cam drive

Flat

Basic

Parallel cam drive

Pin and Race drive

Linear

Circular

Option

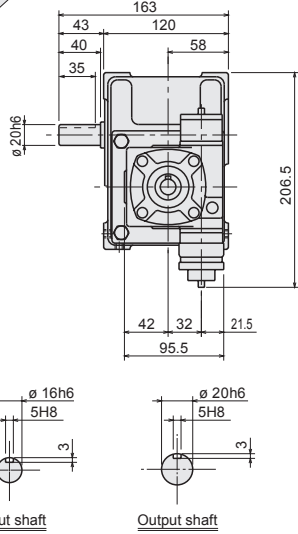
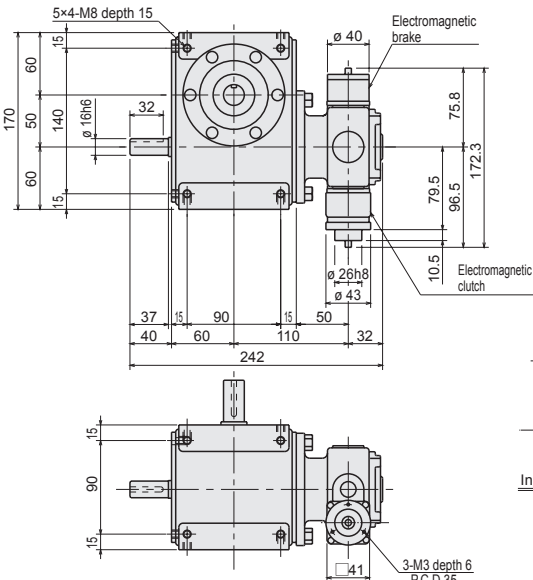
| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Dimensions with options

Product specifications

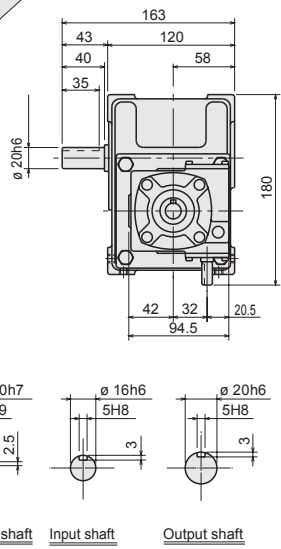
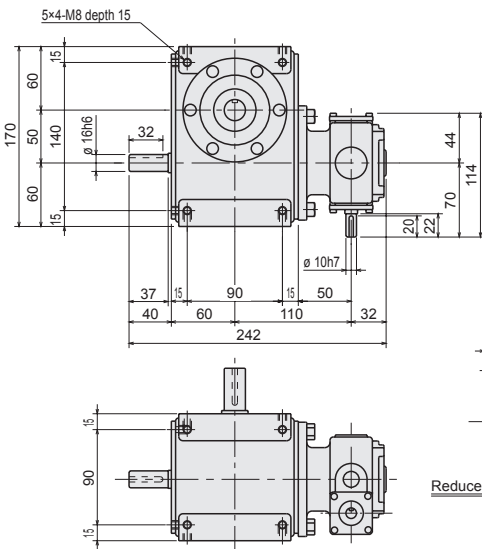
| |
|-----------------------|
| Compact |
| Standard |
| Table |
| Wide angle |
| Roller gear cam drive |
| Compact multi-index |
| Flat |
| Basic |
| Parallel cam drive |
| Circular |
| Linear |
| Option |

With worm reducer (with HO32-C/B)

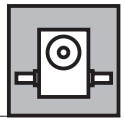


RG I S 050- [] [] [] [] [] S [] -NWN03 [] YG
 RGOS 050
 RGCS 050

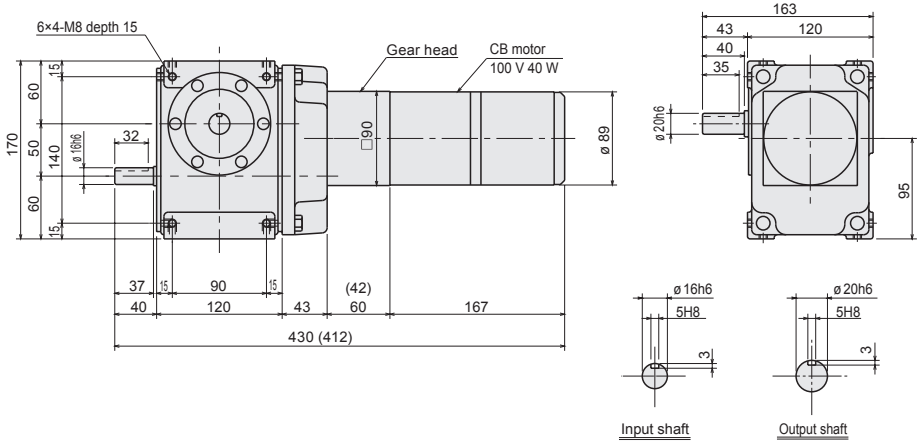
With worm reducer (without HO32-C/B)



RG I S 050- [] [] [] [] [] S [] -NWN03 [] NG
 RGOS 050
 RGCS 050



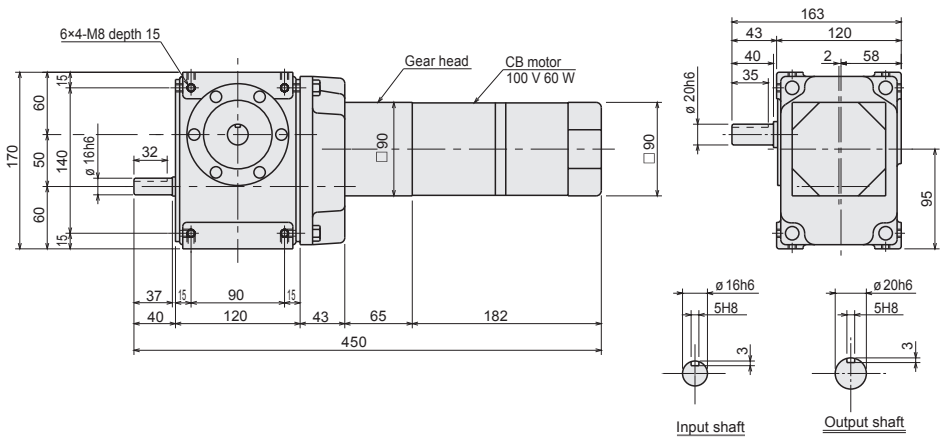
With Gear head + motor (40 W with C/B)



Dimensions in () are for gear head reduction ratio of 1/3 to 1/18.

RG | S 050- [] [] [] [] [] [] [] [] [] [] S [] -NGNCA [] G
 RGOS 050
 RGCS 050

With Gear head + motor (60 W with C/B)



RG | S 050- [] [] [] [] [] [] [] [] [] [] S [] -NGNCA [] G
 RGOS 050
 RGCS 050

Product specifications

| | | | | | |
|--------|---------------------|-----------------------|-------|----------|---------|
| Flat | Compact multi-index | Roller gear cam drive | Table | Standard | Compact |
| | Wide angle | Wide angle | Table | Standard | Compact |
| | Wide angle | Wide angle | Table | Standard | Compact |
| Basic | Flat | Parallel cam drive | Table | Standard | Compact |
| | Basic | Parallel cam drive | Table | Standard | Compact |
| Option | Flat | Parallel cam drive | Table | Standard | Compact |
| | Basic | Parallel cam drive | Table | Standard | Compact |

| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Dimensions with options

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive

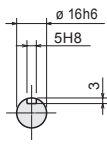
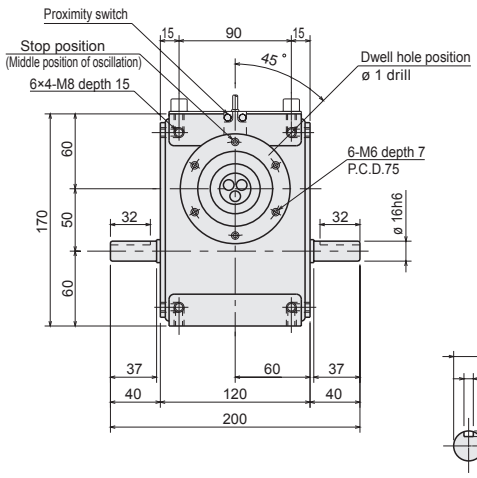
Flat
Basic

Parallel cam drive

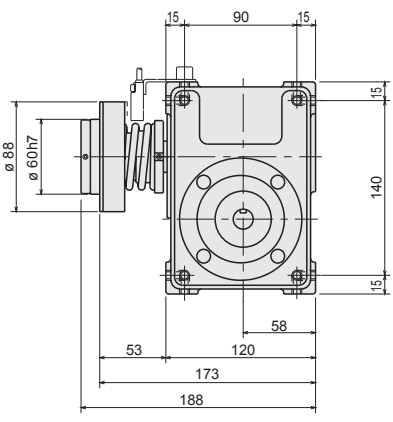
Linear
Circular
Face and
Plane drive

Option

With Torque saver (TSF5)

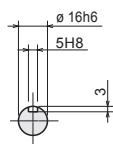
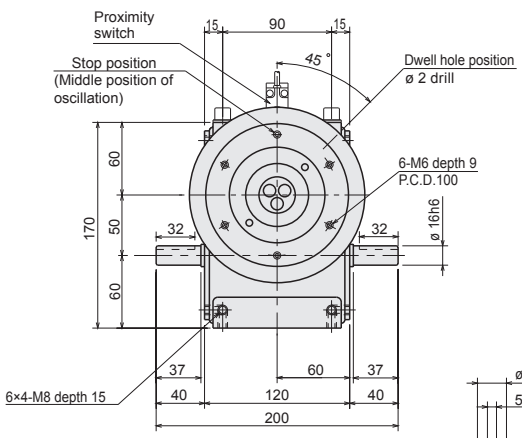


Input shaft

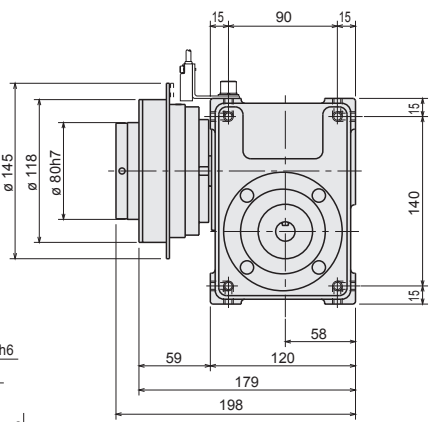


RG I S 050- S -NNF-05
 RGOS 050
 RGCS 050

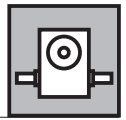
With Torque saver (TSF6)



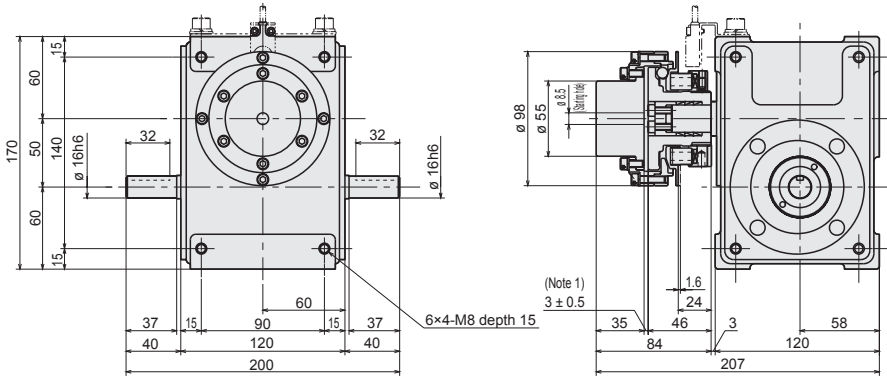
Input shaft



RG I S 050- S -NNF-06
 RGOS 050
 RGCS 050



With Torque guard (TGX20)



RG I S 050- S -NNX-20
 RGOS 050
 RGCS 050

Product specifications

| | | | | | | | |
|--------|--------------------------------------------|--------------------|------|---------------------|-----------------------|-------|----------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | |
| | | Basic | Flat | Compact multi-index | Wide angle | Table | Standard |

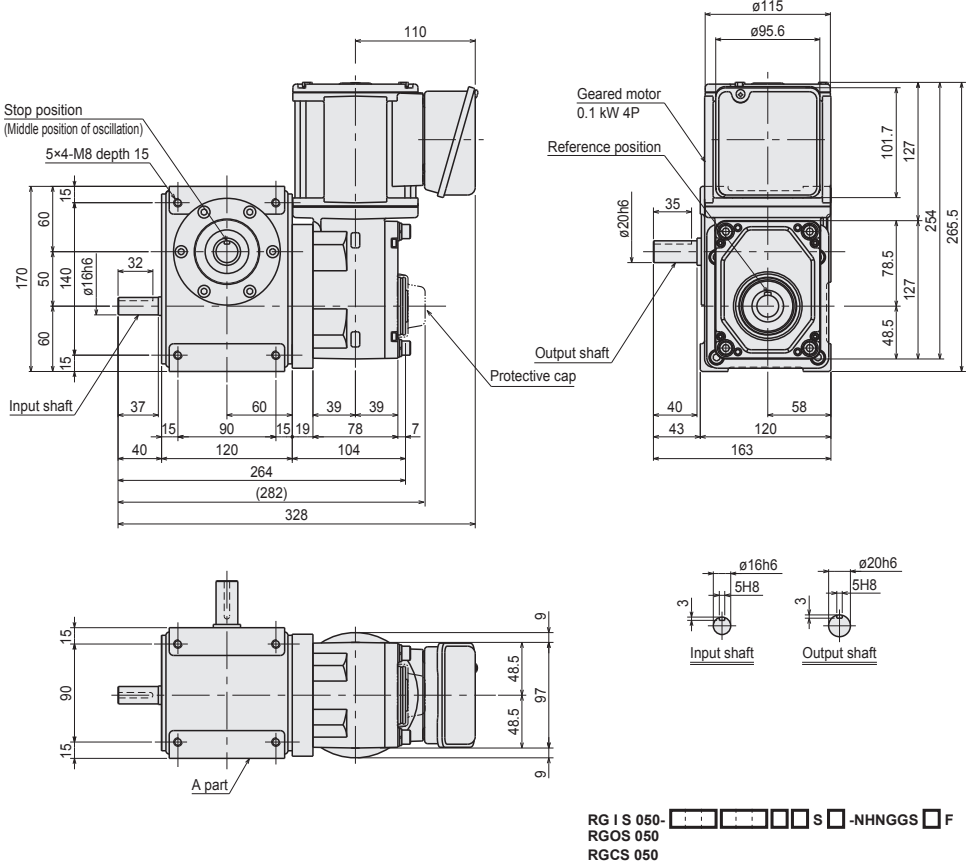
| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Dimensions with options

Product specifications

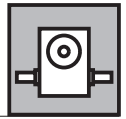
With the hollow shaft geared motor (0.1 kW)

- Compact
- Standard
- Table
- Wide gear cam drive
- Compact multi-index
- Flat
- Basic
- Parallel cam drive
- Circular Piece and Place drive
- Option

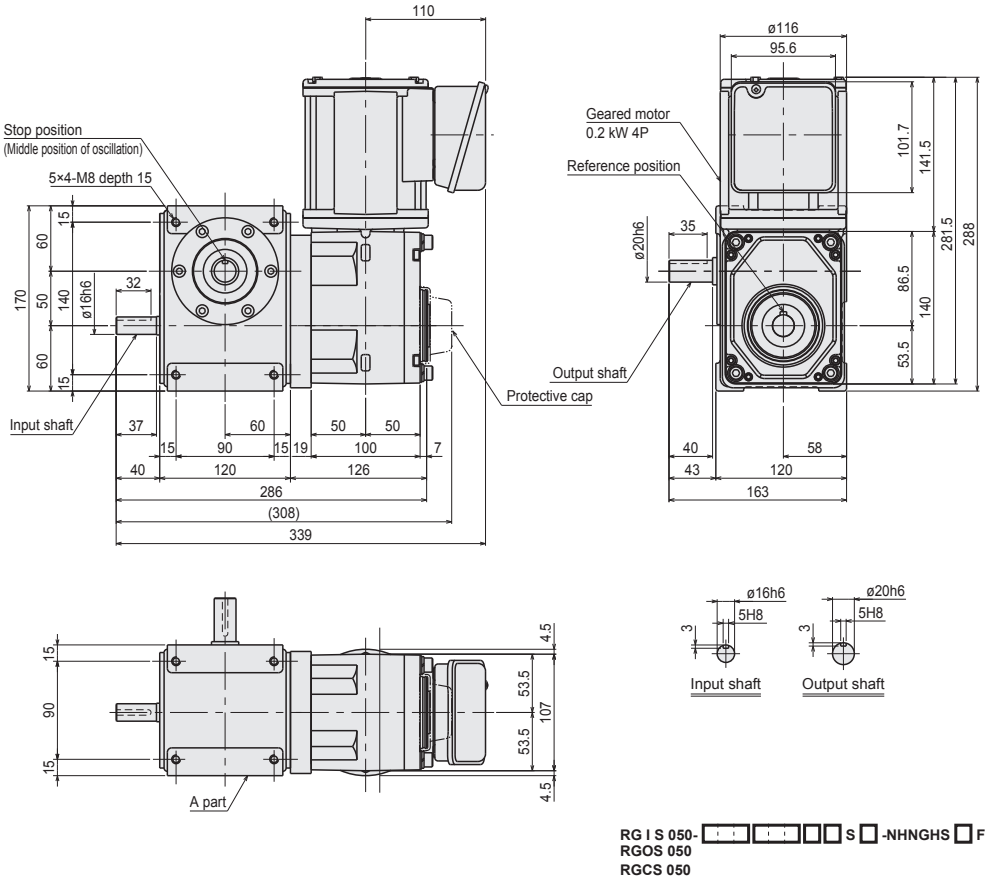


*The motor may protrude from the housing end (A part).

RG I S 050- s -NHNGGS F
 RGOS 050
 RGCS 050



With the hollow shaft geared motor (0.2 kW)



*The motor may protrude from the housing end (A part).

Product specifications

| | | | | | | | | | |
|--------|--------------------------------------------|--------------------|--|--|-----------------------|--|--|----------|--|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | | Compact | |
| | | Basic | | | Flat | | | Standard | |
| | | Wide angle | | | Table | | | Compact | |

Difference between shafts: **50 mm**

Flange shaft

Standard

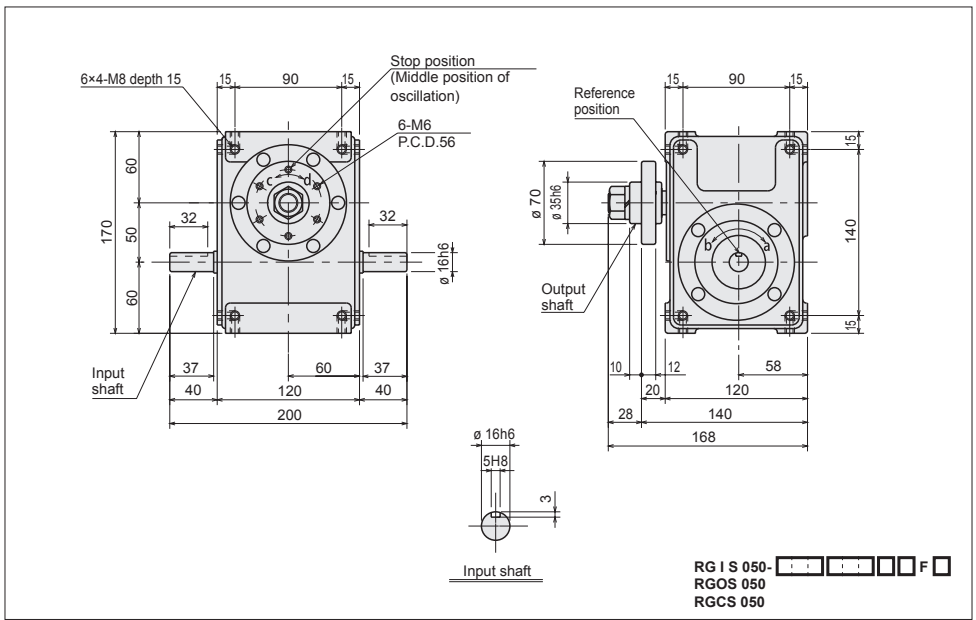
| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Standard specifications

Product specifications

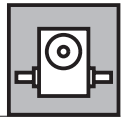
Compact
 Standard
 Table
 Wide gear cam drive
 Roller gear cam drive
 Flat
 Basic
 Parallel cam drive
 Circular
 Linear
 Option

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|----------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | <p>103, 42, 17, 60</p> | <p>103, 42, 17, 60</p> | <p>101, 42(78), 19, 85, 0</p> <p>The dimensions in () are for RGOS.</p> | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc1/4) ○ Oil level gauge ($\phi 20$) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | <p>101, 42(78), 19, 35</p> | <p>155, 57, 15, 32, 60</p> | <p>155, 40, 15, 88, 100</p> | <p>155, 88, 15, 88, 92</p> |
| | | | The dimensions in () are for RGOS. | |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 2200 (1300) | 1200 (700) | Internal frictional torque (Tin) | N·m | 3.0 |
| Allowable radial force | N | 2000 (1200) | 900 (550) | Product weight | kg | 11(7.5) |
| Allowable bending moment | N·m | 55(35) | - | Oil level | ℓ | 0.5 |
| Moment of inertia | kg·m ² | 4.69 × 10 ⁻⁴ | 2.57 × 10 ⁻⁴ | Paint color | | Silver |

List of index angles

Index series **RGIS 050** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | ☆2 | | | | | | ○ | ○ | ○ |
| | ☆3 | | | | ○ | ○ | ○ | ○ | ○ |
| | ☆4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆24 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆32 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | ☆36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 050** Cam curve/MS (Oscillating angle marked with ★)

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| ★120 | | | | | | ○ |
| ★90 | | | | | ○ | ○ |
| ★60 | | | ○ | ○ | ○ | ○ |
| ★45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±90 |
| Repeatability | 15 |

(Oscillating angle other than ★)

| Oscillating accuracy (sec.) | |
|-----------------------------|------|
| Indexing accuracy | ±120 |
| Repeatability | 30 |

* For the dwell accuracy, please contact CKD.

Accuracy (Index number of ☆)

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±90 |
| | 3 dwell | ±135 |
| | 4 dwell | ±180 |
| Repeatability | | 15 |

(Index number other than ☆)

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±60 |
| | 2 dwell | ±120 |
| | 3 dwell | ±180 |
| | 4 dwell | ±240 |
| Repeatability | | 30 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 050**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact

Standard

Table

Wide angle

Roller gear cam drive

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

Circular

Option

Pin and Race drive

Linear

Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Dimensions with options

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Roller gear cam drive

Flat

Basic

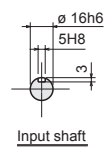
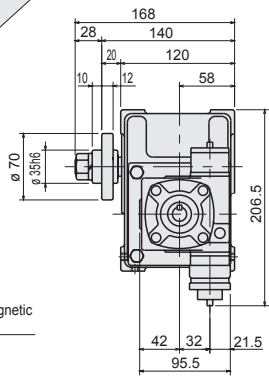
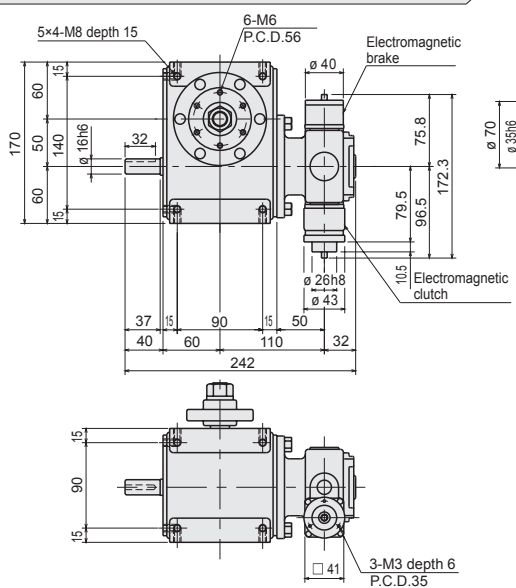
Parallel cam drive

Circular

Linear

Option

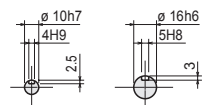
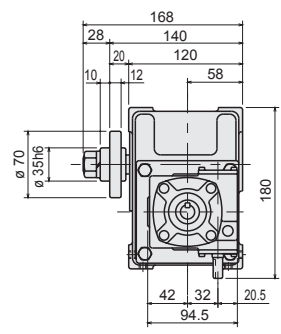
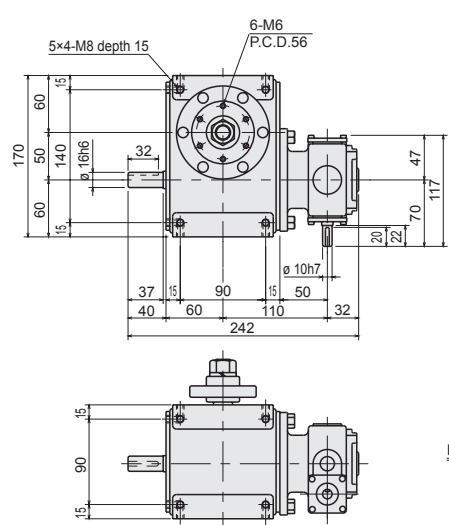
With worm reducer (with HO32-C/B)



Input shaft

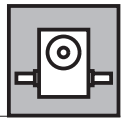
RG I S 050- [] [] [] [] F [] -NWN03 [] YG
 RGOS 050
 RGCS 050

With worm reducer (without HO32-C/B)

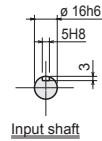
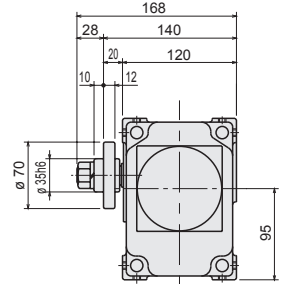
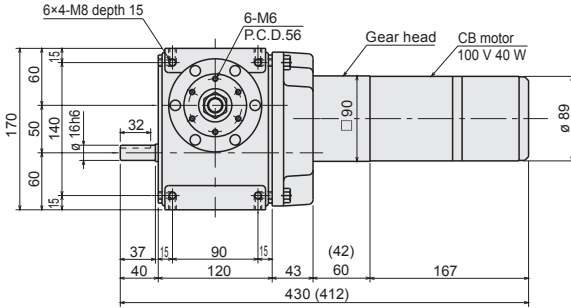


Reducer input shaft Input shaft

RG I S 050- [] [] [] [] F [] -NWN03 [] NG
 RGOS 050
 RGCS 050



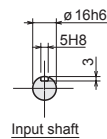
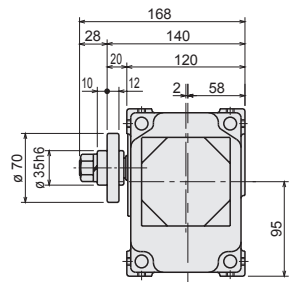
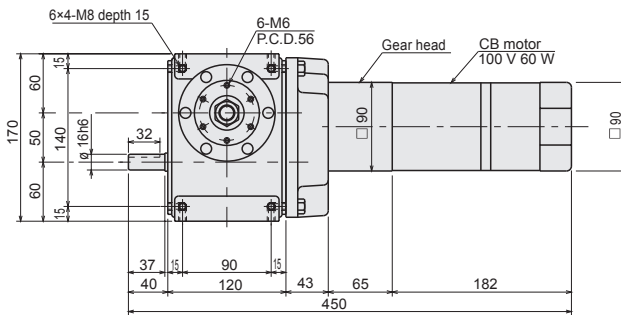
With Gear head + motor (40 W with C/B)



Dimensions in () are for gear head reduction ratio of 1/3 to 1/18.

RG I S 050- [] [] [] [] [] [] F [] -NGNCDA [] G
 RGOS 050
 RGCS 050

With Gear head + motor (60 W with C/B)



RG I S 050- [] [] [] [] [] [] F [] -NGNCEA [] G
 RGOS 050
 RGCS 050

Product specifications

Compact
 Standard

Roller gear cam drive
 Table
 Wide angle

Compact multi-index

Flat
 Basic

Parallel cam drive

Pick and Place drive
 Linear
 Circular

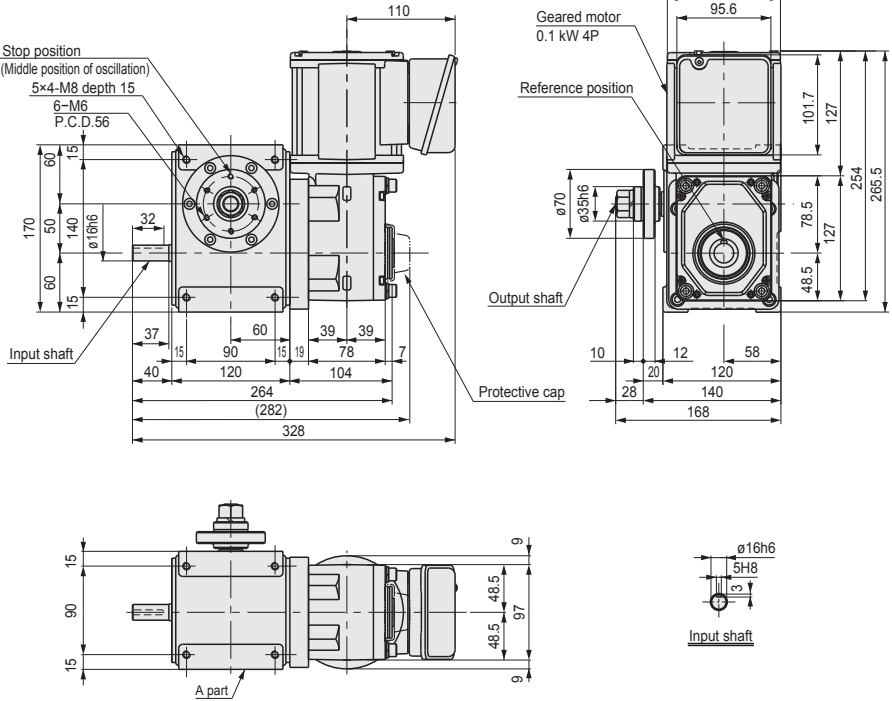
Option

| | |
|------------|-------------------|
| Index | RG I S 050 |
| Oscillator | RGOS 050 |
| Reducer | RGCS 050 |

● Dimensions with options



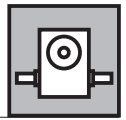
With the hollow shaft geared motor (0.1 kW)



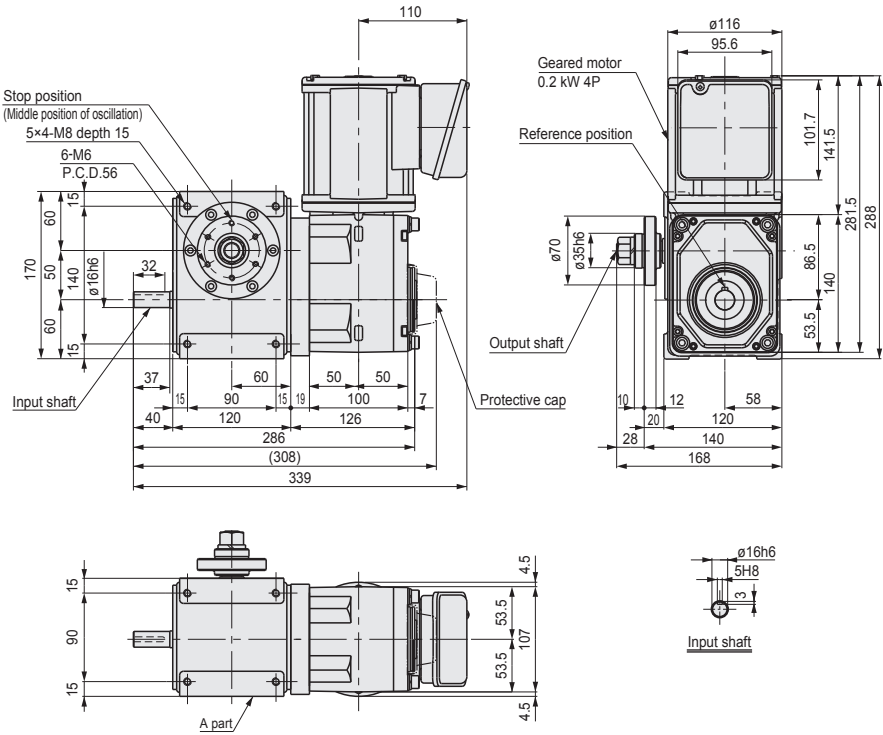
RG I S 050- F -NHNGGS F
 RGOS 050
 RGCS 050

*The motor may protrude from the housing end (A part).

| | | | | | | | | | | | |
|--------|--------------------------------------|----------------------------------------|--------------------|-------|------|---------------------|------------|-------|----------|---------|------------------------|
| Option | Linear Pillow and Pillow drive | Circular Pillow and Pillow drive | Parallel cam drive | Basic | Flat | Compact multi-index | Wide angle | Table | Standard | Compact | Product specifications |
|--------|--------------------------------------|----------------------------------------|--------------------|-------|------|---------------------|------------|-------|----------|---------|------------------------|



With the hollow shaft geared motor (0.2 kW)



RG I S 050- F -NHNGHS F
 RGOS 050
 RGCS 050

*The motor may protrude from the housing end (A part).

Product specifications

| | | | |
|-----------------------|------------|----------|---------|
| Roller gear cam drive | Table | Standard | Compact |
| Compact multi-index | Wide angle | | |
| Flat | | | |
| Basic | | | |

Parallel cam drive

| | |
|----------------------|--|
| Pick and Place drive | |
| Linear | |
| Circular | |

Option

Difference between shafts: **63 mm** Straight shaft

Standard

● Standard specifications

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Flat

Basic

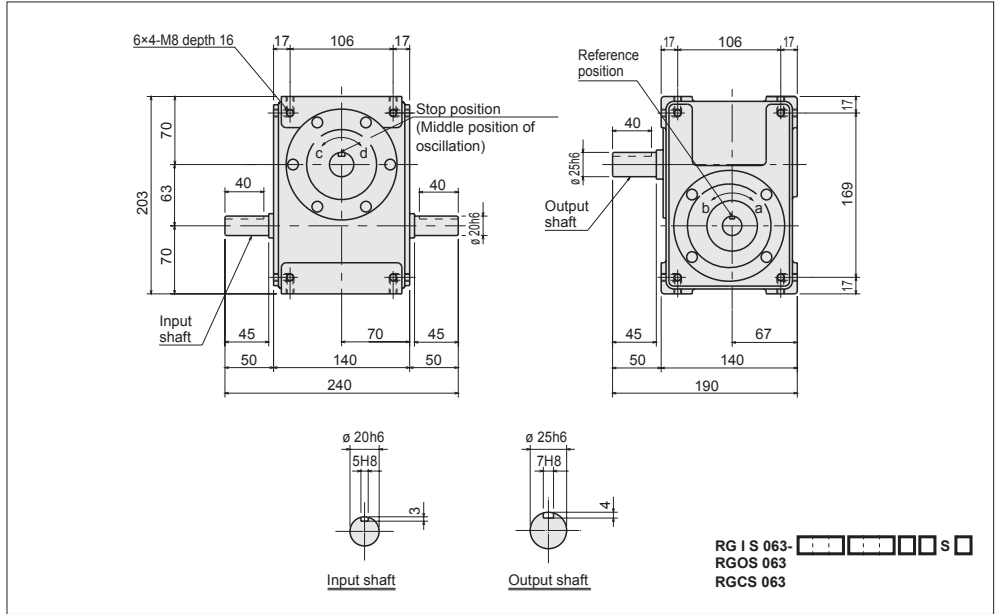
Parallel cam drive

Circular
Pace and
Place drive

Option

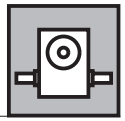
Roller gear cam drive

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc1/4) ○ Oil level gauge (Ø 20) |
| | | | | The dimensions in () are for RGOS. |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | | | | The dimensions in () are for RGOS. |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 3000 (1800) | 2000 (1200) | Internal frictional torque (Tin) | N·m | 4.8 |
| Allowable radial force | N | 3000 (1800) | 1600 (1000) | Product weight | kg | 18 (13) |
| Allowable bending moment | N·m | 110 (65) | - | Oil level | ℓ | 0.8 |
| Moment of inertia | kg·m ² | 6.99 × 10 ⁻⁴ | 8.09 × 10 ⁻⁴ | Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±90 |
| | 3 dwell | ±135 |
| | 4 dwell | ±180 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±90 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 063** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 063** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 063**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

● Dimensions with options

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive

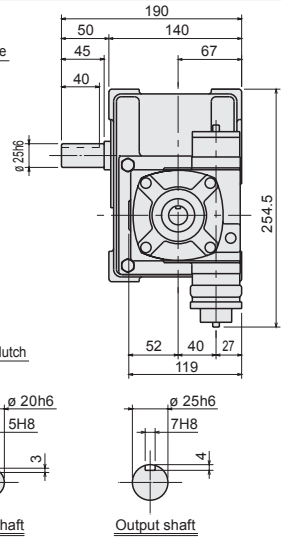
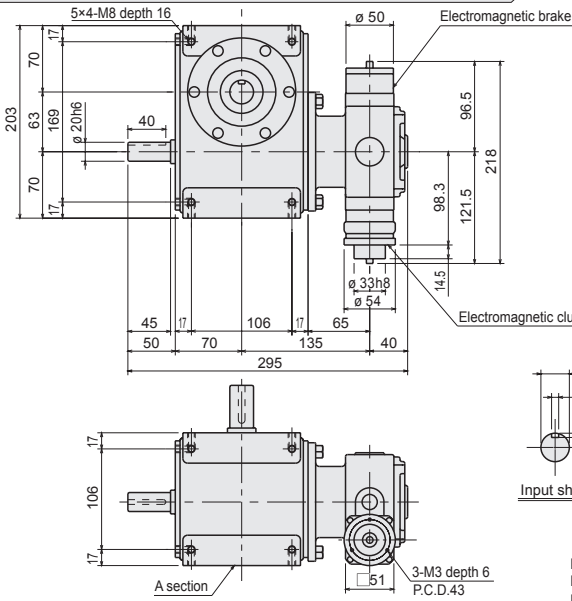
Flat
Basic

Parallel cam drive

Circular
Face and
Plane drive

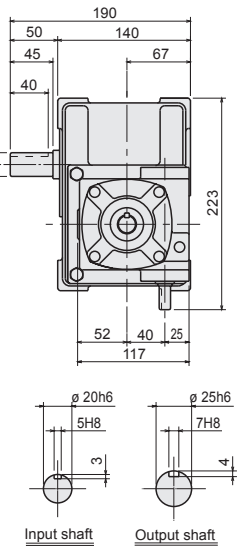
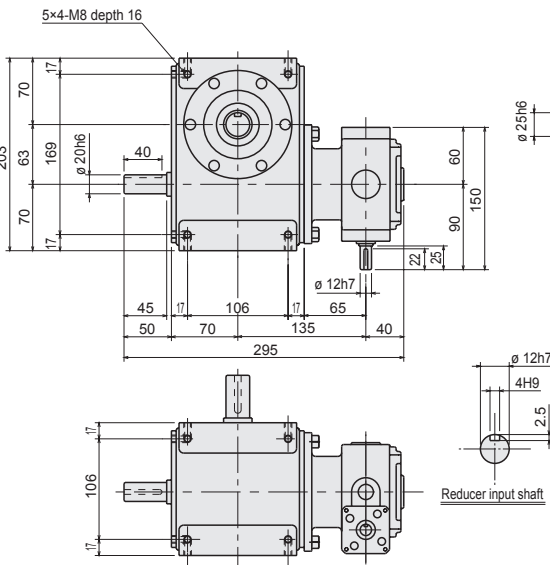
Option

With worm reducer (with HO40-C/B)

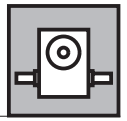


RG I S 063- [] [] [] [] [] S [] -NWN04 [] YG
 RGOS 063 * Reducer may protrude from the housing
 RGCS 063 end face (section A).

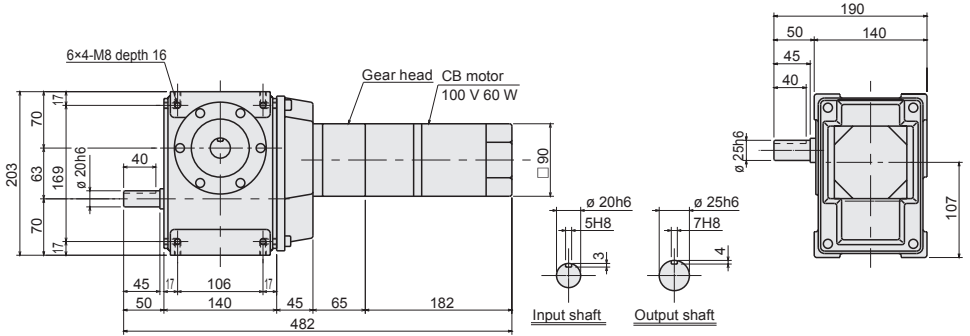
With worm reducer (without HO40-C/B)



RG I S 063- [] [] [] [] [] S [] -NWN04 [] NG
 RGOS 063
 RGCS 063

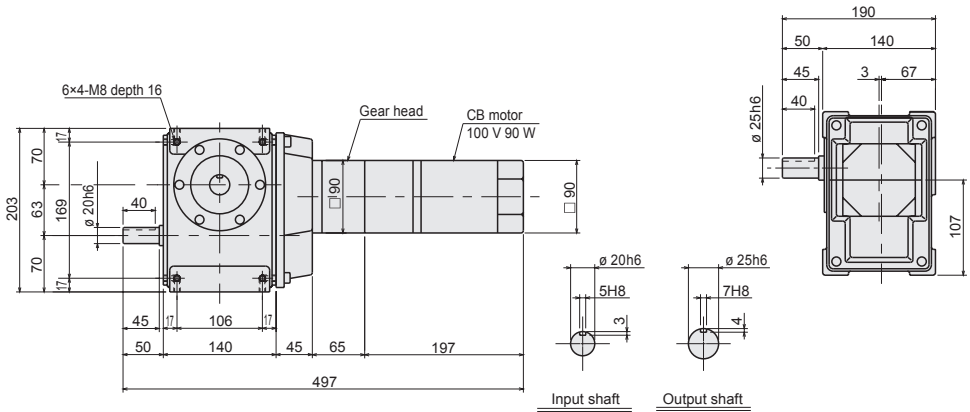


With Gear head + motor (60 W with C/B)



RG | S 063- [] [] [] [] [] S [] -NGNCEA [] G
 RGOS 063
 RGCS 063

With Gear head + motor (90 W with C/B)



RG | S 063- [] [] [] [] [] S [] -NGNCF A [] G
 RGOS 063
 RGCS 063

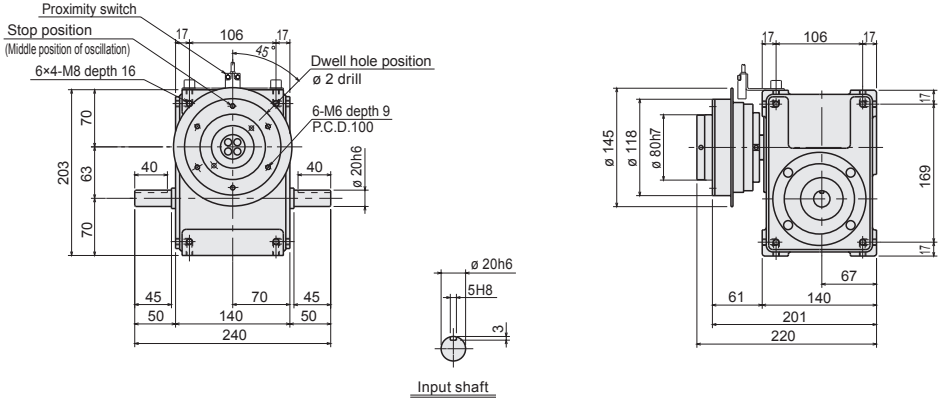
Product specifications

| | | | | | | | | | |
|--------|------------|--------------------|-------|------|---------------------|-----------------------|-------|----------|---------|
| Option | Linear | Parallel cam drive | Basic | Flat | Compact multi-index | Roller gear cam drive | Table | Standard | Compact |
| | Circular | | | | | | | | |
| | Wide angle | | | | | | | | |

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

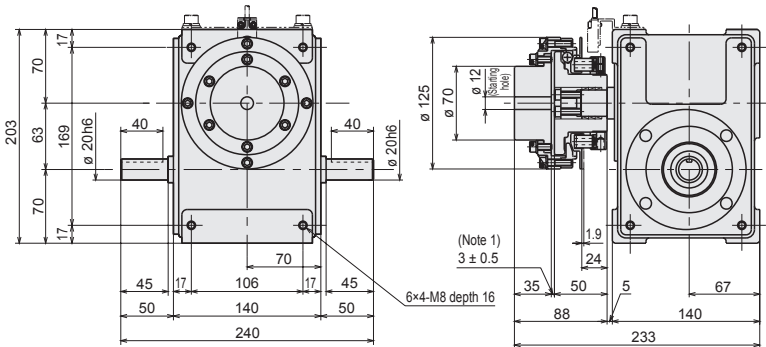
● Dimensions with options

With Torque saver (TSF6)



RG I S 063- S -NNF-06
 RGOS 063
 RGCS 063

With Torque guard (TGX35)



RG I S 063- S -NNX-35
 RGOS 063
 RGCS 063

Note 1: Attach to the equipment within the dimensions specified.

Product specifications

Compact

Standard

Table

Wide angle

Roller gear cam drive

Compact multi-index

Flat

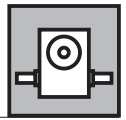
Basic

Parallel cam drive

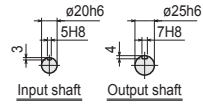
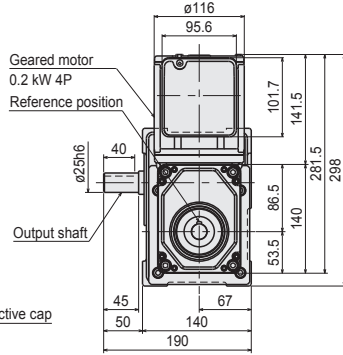
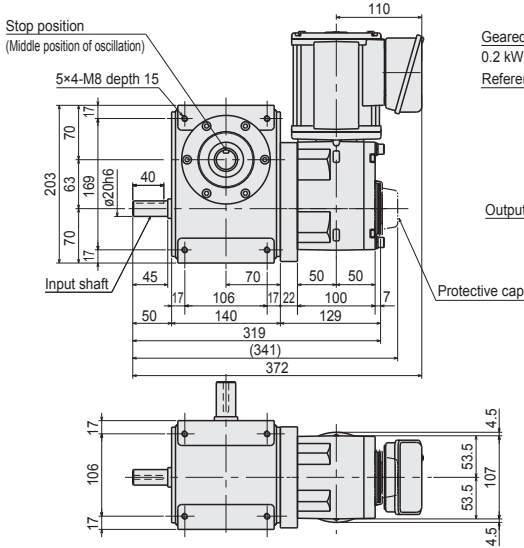
Circular

Linear

Option

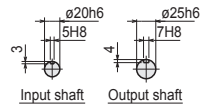
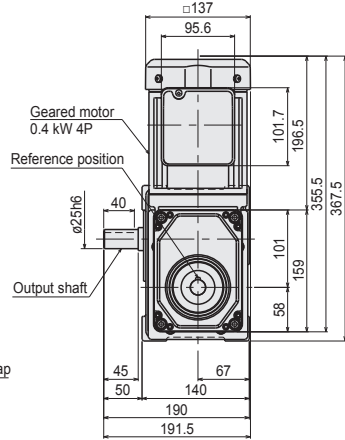
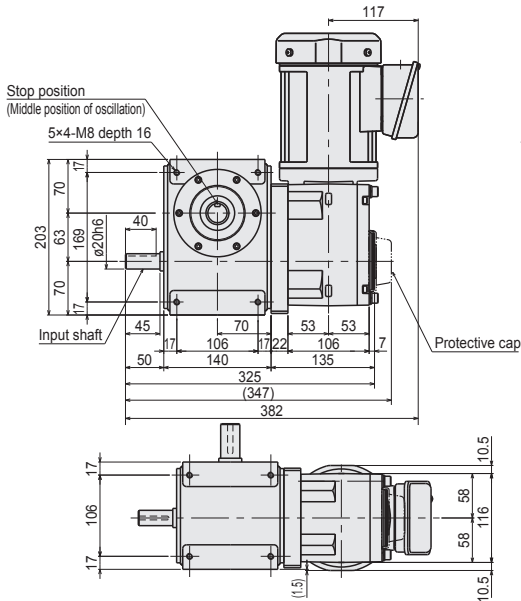


With the hollow shaft geared motor (0.2 kW)



RG I S 063: S -NHNGHS F
 RGOS 063
 RGCS 063

With the hollow shaft geared motor (0.4 kW)



RG I S 063: S -NHNGJS F
 RGOS 063
 RGCS 063

Product specifications

| | | | | |
|--------------------------------------------|-----------------------|------------|----------|---------|
| Compact multi-index | Roller gear cam drive | Table | Standard | Compact |
| | Flat | Wide angle | | |
| | Basic | | | |
| Pick and Place drive Linear Circular | Parallel cam drive | | | |

Option

Difference between shafts: **63 mm** Flange shaft

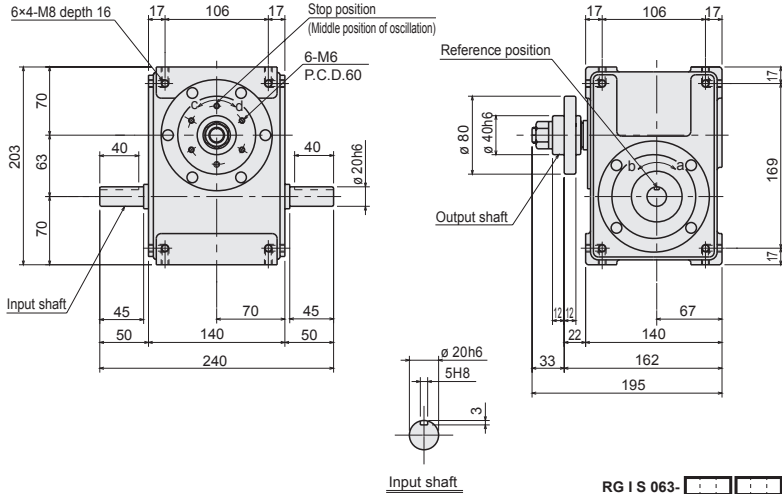
Standard

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

● Standard specifications

Product specifications

Dimensions



RG I S 063- F

RGOS 063
RGCS 063

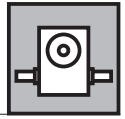
Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 |
|-------------------------------------|----------------|----------------|----------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | |
| The dimensions in () are for RGOS. | | | |

- Oil fill/drain port (Rc¹/₄)
- Oil level gauge (∅ 20)

| Installation position | 4 | 5 | 6 | |
|-------------------------------------|----------------|----------------|-----------|------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| The dimensions in () are for RGOS. | | | | |

Compact
 Standard
 Table
 Wide angle
 Roller gear cam drive
 Compact multi-index
 Flat
 Basic
 Parallel cam drive
 Circular
 Linear
 Option



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 3000 (1800) | 2000 (1200) | Internal frictional torque (Tin) | N·m | 4.8 |
| Allowable radial force | N | 3000 (1800) | 1600 (1000) | Product weight | kg | 18 (13) |
| Allowable bending moment | N·m | 110 (65) | - | Oil level | ℓ | 0.8 |
| Moment of inertia | kg·m ² | 1.12 × 10 ⁻³ | 8.09 × 10 ⁻⁴ | Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±90 |
| | 3 dwell | ±135 |
| | 4 dwell | ±180 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±90 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 063** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 063** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 063**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive

Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

● Dimensions with options

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Roller gear cam drive

Flat

Basic

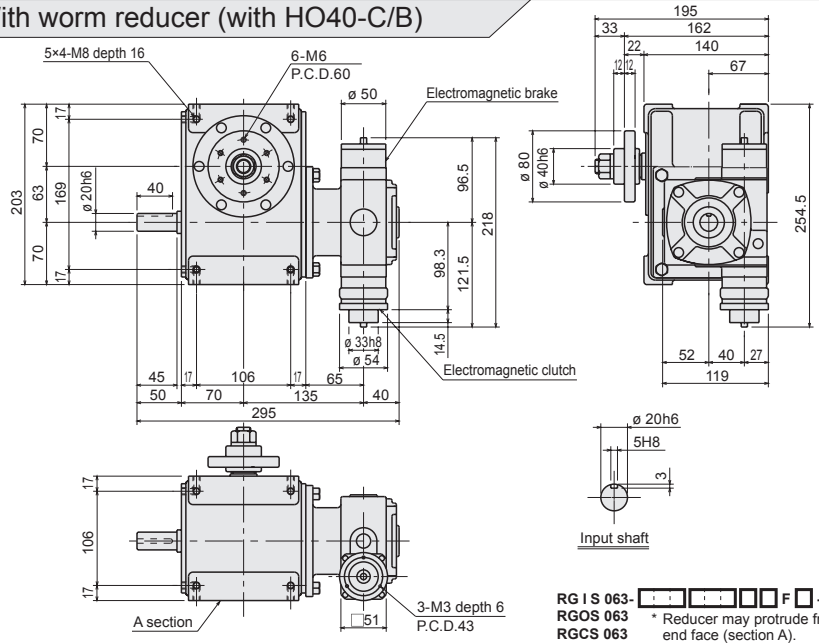
Parallel cam drive

Circular

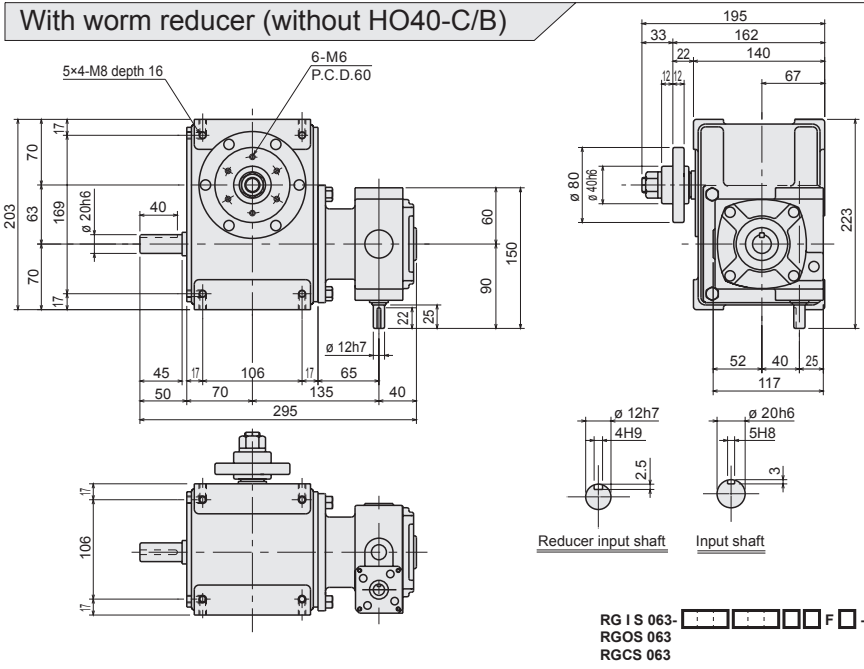
Linear

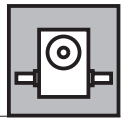
Option

With worm reducer (with HO40-C/B)

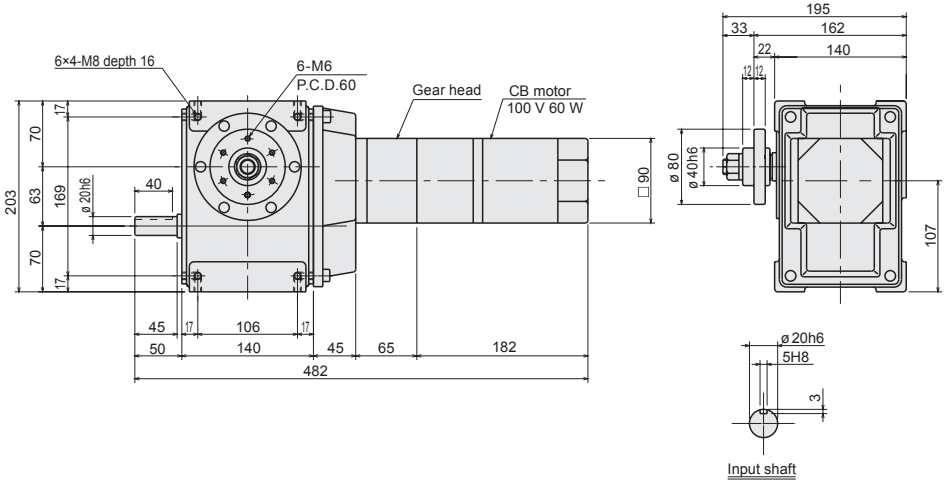


With worm reducer (without HO40-C/B)



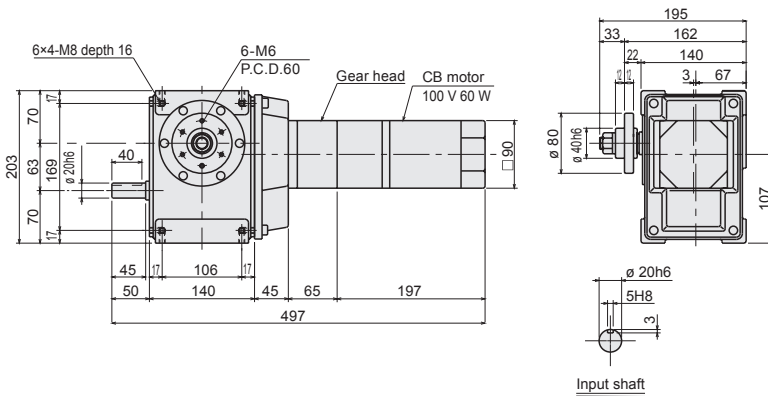


With Gear head + motor (60 W with C/B)



RG I S 063- [] [] [] [] [] [] F [] -NGNCEA [] G
 RGOS 063
 RGCS 063

With Gear head + motor (90 W with C/B)



RG I S 063- [] [] [] [] [] [] F [] -NGNCF A [] G
 RGOS 063
 RGCS 063

Product specifications

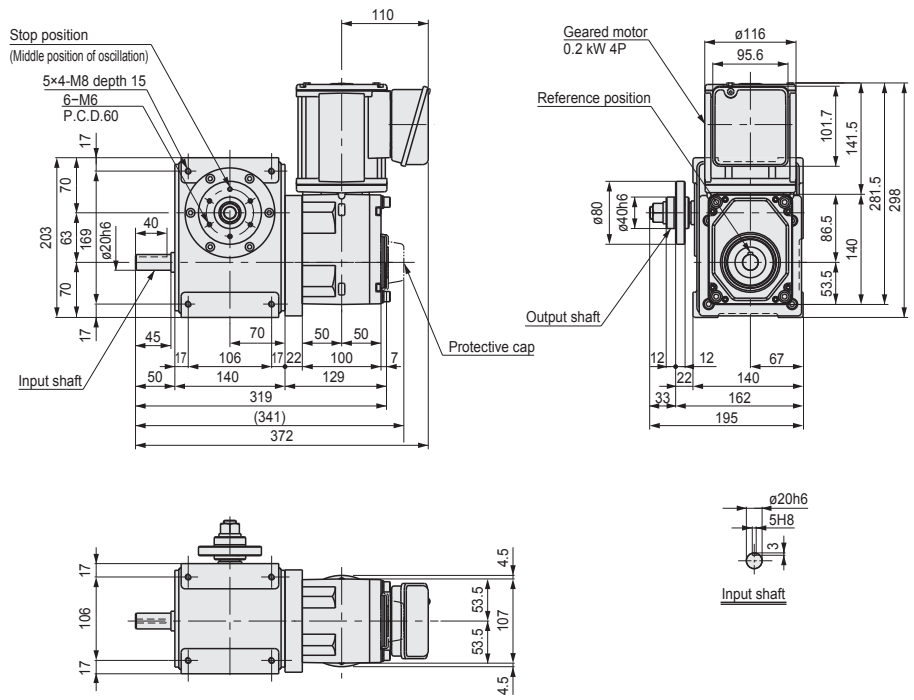
| | | | | | |
|----------------------|-----------------------|------------|-------|----------|---------|
| Flat | Compact multi-index | Wide angle | Table | Standard | Compact |
| | Roller gear cam drive | Wide angle | Table | Standard | Compact |
| | Parallel cam drive | Wide angle | Table | Standard | Compact |
| Option | Flat | Wide angle | Table | Standard | Compact |
| | Basic | Wide angle | Table | Standard | Compact |
| Pick and Place drive | Linear | Wide angle | Table | Standard | Compact |
| | Circular | Wide angle | Table | Standard | Compact |

| | |
|------------|-------------------|
| Index | RG I S 063 |
| Oscillator | RGOS 063 |
| Reducer | RGCS 063 |

● Dimensions with options

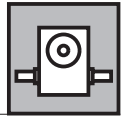


With the hollow shaft geared motor (0.2 kW)



RG I S 063- [] [] [] [] [] F -NHHGS [] F
 RGOS 063
 RGCS 063

| | |
|------------------------|---------------------|
| Product specifications | Compact |
| | Standard |
| | Table |
| | Wide angle |
| Roller gear cam drive | Compact multi-index |
| | Flat |
| | Basic |
| Parallel cam drive | Linear |
| | Circular |
| Option | Flange and |
| | Flange drive |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 3500 (2100) | 2500 (1500) | Internal frictional torque (Tin) | N·m | 7.8 |
| Allowable radial force | N | 4200 (2500) | 2700 (1600) | Product weight | kg | 32 (23) |
| Allowable bending moment | N·m | 150 (90) | - | Oil level | ℓ | 1.2 |
| Moment of inertia | kg·m ² | 1.95 × 10 ⁻³ | 3.14 × 10 ⁻³ | Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 080** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 16 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 080** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|-----|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | | |
| | 120 | | | | | | ○ |
| | 90 | | | | | ○ | ○ |
| | 60 | | | ○ | ○ | ○ | ○ |
| | 45 | | | ○ | ○ | ○ | ○ |
| | 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 080**

| Total index angle (θt) | | 360 |
|------------------------|------|-----|
| Reduction ratio (id) | | |
| | 1/3 | ○ |
| | 1/4 | ○ |
| | 1/5 | ○ |
| | 1/6 | ○ |
| | 1/8 | ○ |
| | 1/9 | ○ |
| | 1/10 | ○ |
| | 1/12 | ○ |

Product specifications

Compact
Standard

Table

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

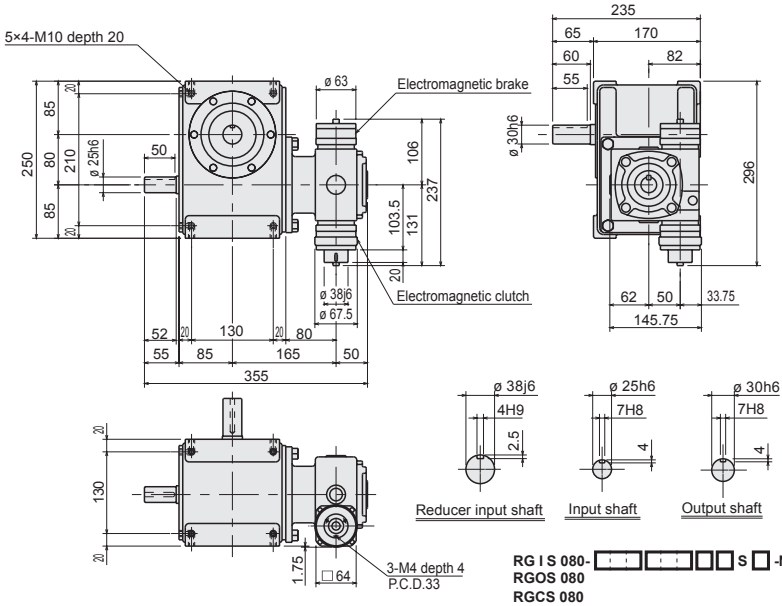
Option

| | |
|------------|-------------------|
| Index | RG I S 080 |
| Oscillator | RGOS 080 |
| Reducer | RGCS 080 |

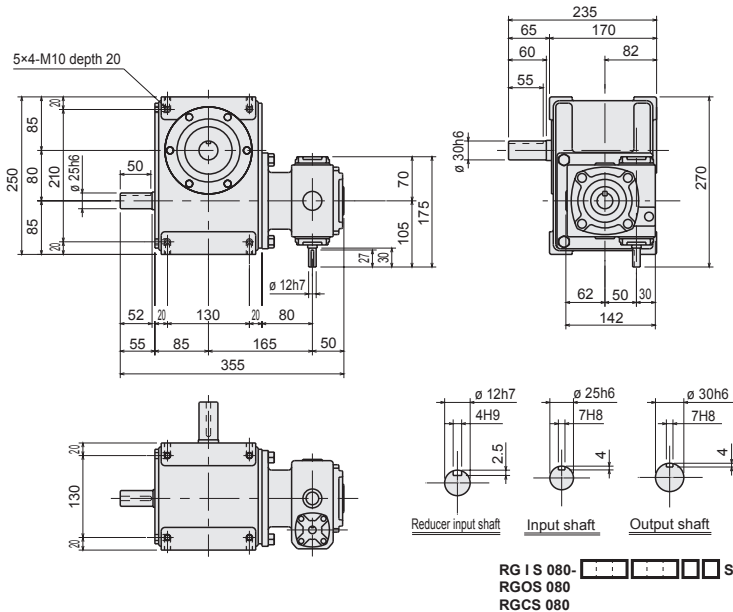
● Dimensions with options

Product specifications

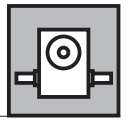
With worm reducer (with HO50-C/B)



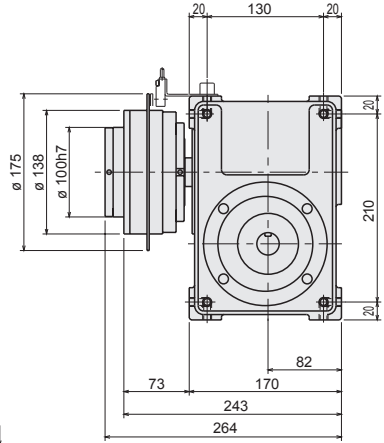
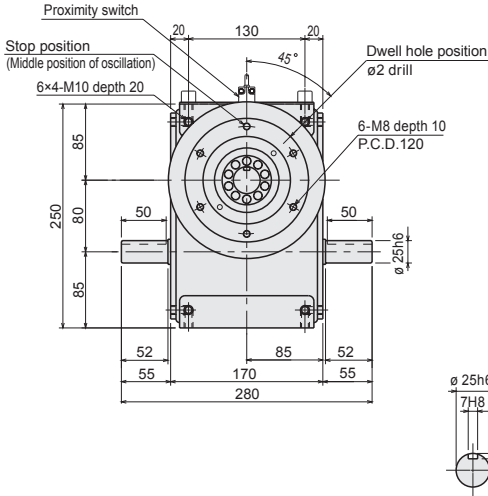
With worm reducer (without HO50-C/B)



Compact
 Standard
 Table
 Wide angle
 Compact multi-index
 Roller gear cam drive
 Flat
 Basic
 Parallel cam drive
 Circular
 Linear
 Option



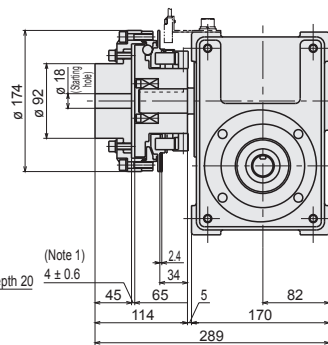
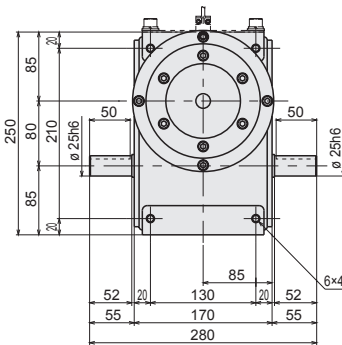
With Torque saver (TSF8)



Input shaft

RG I S 080- [] [] [] [] S [] -NNF-08 []
 RGOS 080
 RGCS 080

With Torque guard (TGX50)



RG I S 080- [] [] [] [] S [] -NNX-50 []
 RGOS 080
 RGCS 080

Note 1: Attach to the equipment within the dimensions specified.

Product specifications

| | | | |
|-----------------------|---------------------|----------|---------|
| Roller gear cam drive | Table | Standard | Compact |
| | Wide angle | | |
| | Compact multi-index | | |
| Parallel cam drive | Flat | | |
| | Basic | | |
| Pick and Place drive | Linear | | |
| | Circular | | |
| Option | | | |

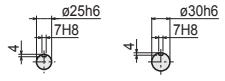
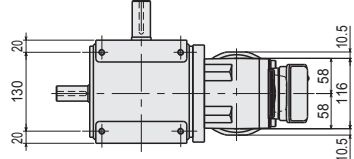
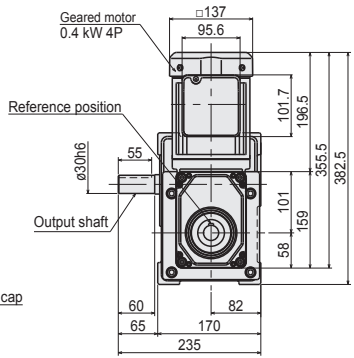
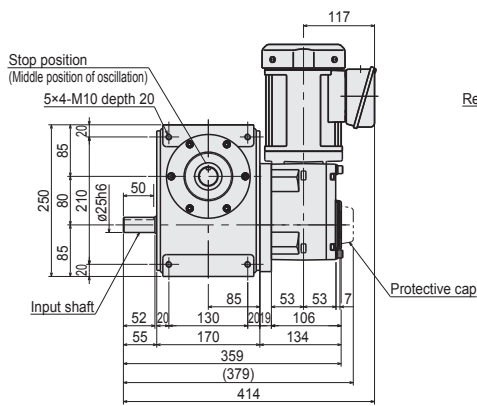
| | |
|------------|-------------------|
| Index | RG I S 080 |
| Oscillator | RGOS 080 |
| Reducer | RGCS 080 |

● Dimensions with options

Product specifications

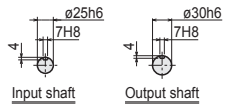
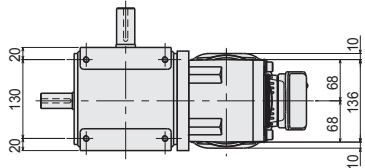
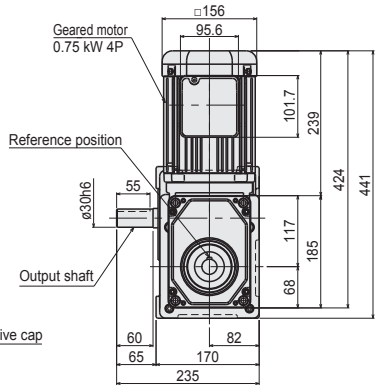
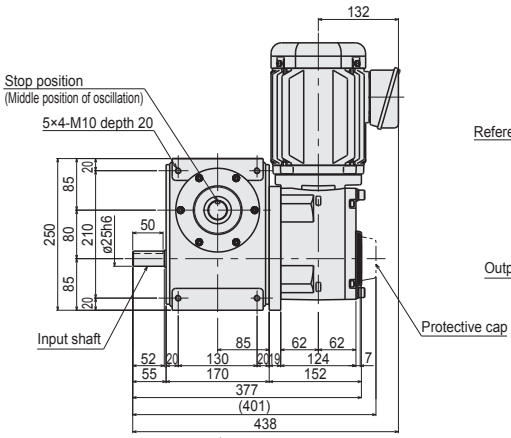
| | | | | | | | | | | |
|---------|----------|-------|------------|-------------|------|-------|--------------------|----------------------|--------|--------|
| Compact | Standard | Table | Wide angle | Multi-index | Flat | Basic | Parallel cam drive | Circular | Linear | Option |
| | | | | | | | | Face and Plate drive | | |

With the hollow shaft geared motor (0.4 kW)



Input shaft Output shaft
 RG I S 080- [] [] [] [] [] [] [] [] [] [] S [] -NHNGJS [] F
 RGOS 080
 RGCS 080

With the hollow shaft geared motor (0.75 kW)



Input shaft Output shaft
 RG I S 080- [] [] [] [] [] [] [] [] [] [] S [] -NHNGKS [] F
 RGOS 080
 RGCS 080

Difference between shafts: **80 mm** Flange shaft

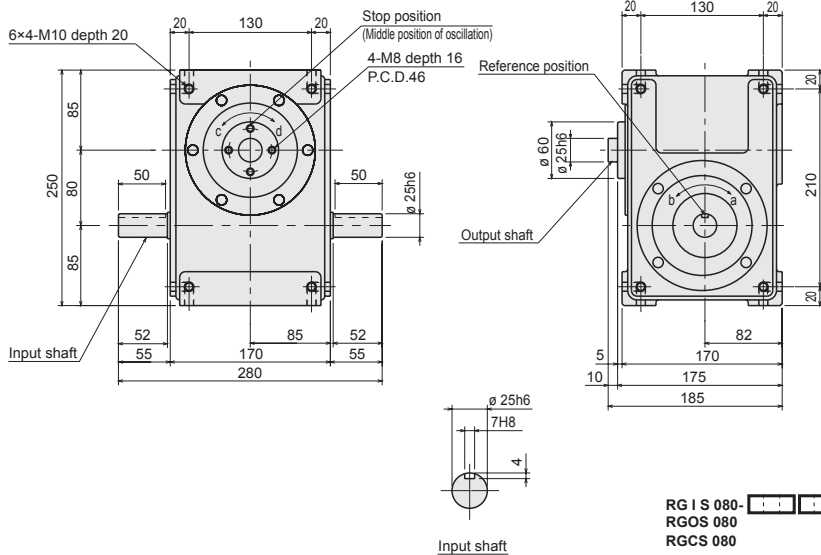
Standard

| | |
|------------|-------------------|
| Index | RG I S 080 |
| Oscillator | RGOS 080 |
| Reducer | RGCS 080 |

● Standard specifications

Product specifications

Dimensions

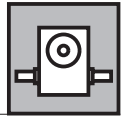


RG I S 080- F

RGOS 080
RGCS 080

Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc³/₈) ○ Oil level gauge (∅ 30) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | The dimensions in () are for RGOS. | | | |



Characteristics

Values in parenthesis () represents the aluminum housing data.

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-------------------------|-------------------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 3500 (2100) | 2500 (1500) | Internal frictional torque (Tin) | N·m | 7.8 |
| Allowable radial force | N | 4200 (2500) | 2700 (1700) | Product weight | kg | 32 (23) |
| Allowable bending moment | N·m | 200 (120) | - | Oil level | ℓ | 1.2 |
| Moment of inertia | kg·m ² | 3.07 × 10 ⁻³ | 3.14 × 10 ⁻³ | Paint color | | Silver |

List of index angles

Index series **RGIS 080** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 080** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|--|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | | |
| 120 | | | | | | | ○ |
| 90 | | | | | | ○ | ○ |
| 60 | | | | ○ | ○ | ○ | ○ |
| 45 | | | | ○ | ○ | ○ | ○ |
| 30 | | | | ○ | ○ | ○ | ○ |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 080**

| Total index angle (θt) | | 360 |
|------------------------|--|-----|
| Reduction ratio (id) | | |
| 1/3 | | ○ |
| 1/4 | | ○ |
| 1/5 | | ○ |
| 1/6 | | ○ |
| 1/8 | | ○ |
| 1/9 | | ○ |
| 1/10 | | ○ |
| 1/12 | | ○ |

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

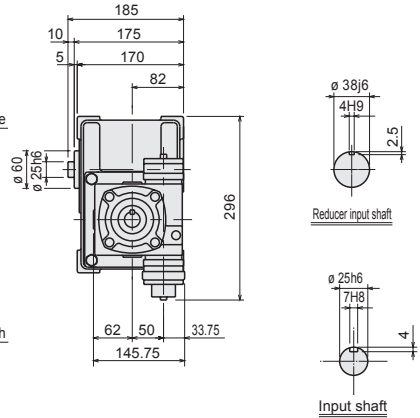
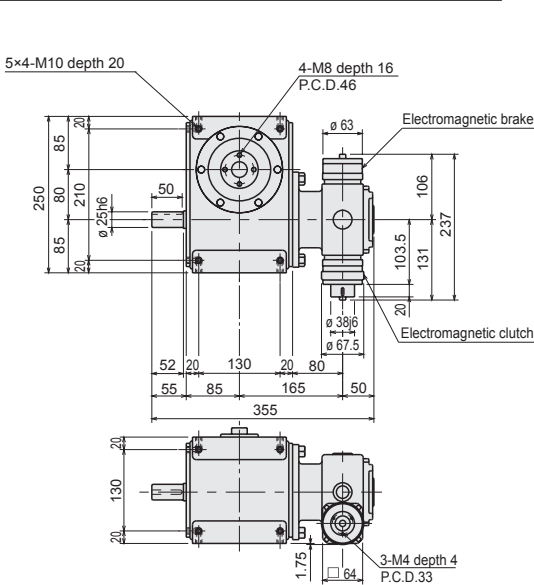
Circular

Option

| | |
|------------|-------------------|
| Index | RG I S 080 |
| Oscillator | RGOS 080 |
| Reducer | RGCS 080 |

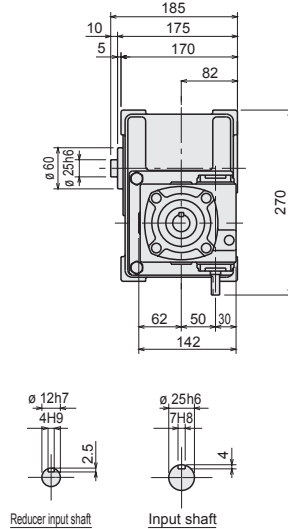
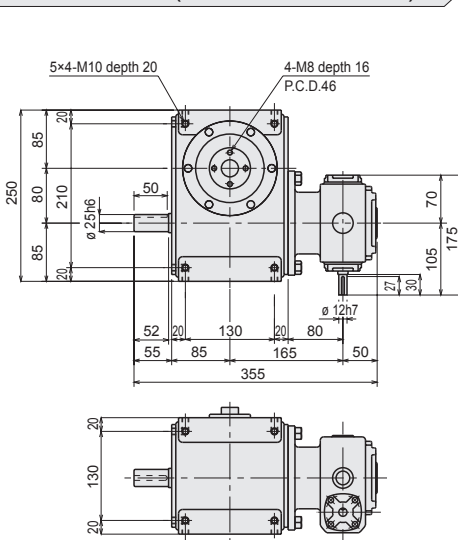
● Dimensions with options

With worm reducer (with HO50-C/B)



RG I S 080- [] [] [] [] [] F □ -NWN05 □ YG
 RGOS 080
 RGCS 080

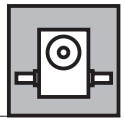
With worm reducer (without HO50-C/B)



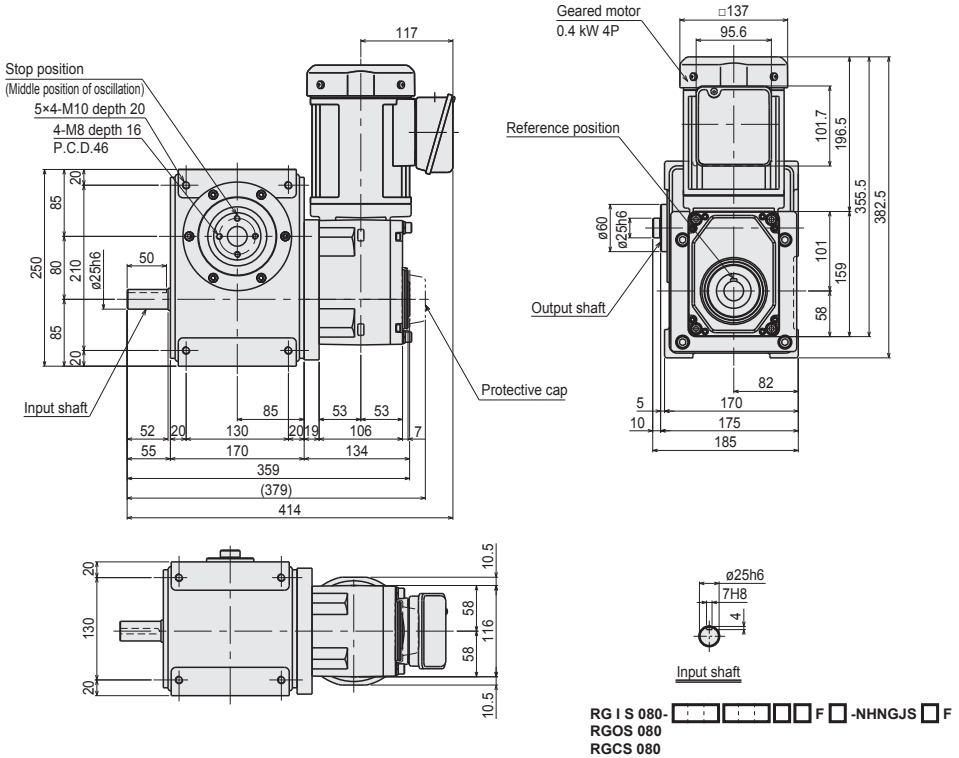
RG I S 080- [] [] [] [] [] F □ -NWN05 □ NG
 RGOS 080
 RGCS 080

Product specifications

| | | | | | | | | | | |
|---------|----------|-------|---------------------|------------|-----------------------|------|-------|--------------------|---------------------------|--------|
| Compact | Standard | Table | Wide gear cam drive | Wide angle | Roller gear cam drive | Flat | Basic | Parallel cam drive | Circular | Option |
| | | | | | | | | | Linear | Option |
| | | | | | | | | | Flange and Plate drive | |



With the hollow shaft geared motor (0.4 kW)



Product specifications

| | | | |
|---------------------|------------|----------|---------|
| Compact multi-index | Table | Standard | Compact |
| Flat | Wide angle | | |
| Basic | | | |

Roller gear cam drive

Parallel cam drive

Option

Pick and Place drive
Linear
Circular

Difference between shafts: **80 mm**

Flange shaft

| | |
|------------|-------------------|
| Index | RG I S 080 |
| Oscillator | RGOS 080 |
| Reducer | RGCS 080 |

● Dimensions with options



Product specifications

With the hollow shaft geared motor (0.75 kW)

Compact

Standard

Table

Wide angle

Compact multi-index

Flat

Basic

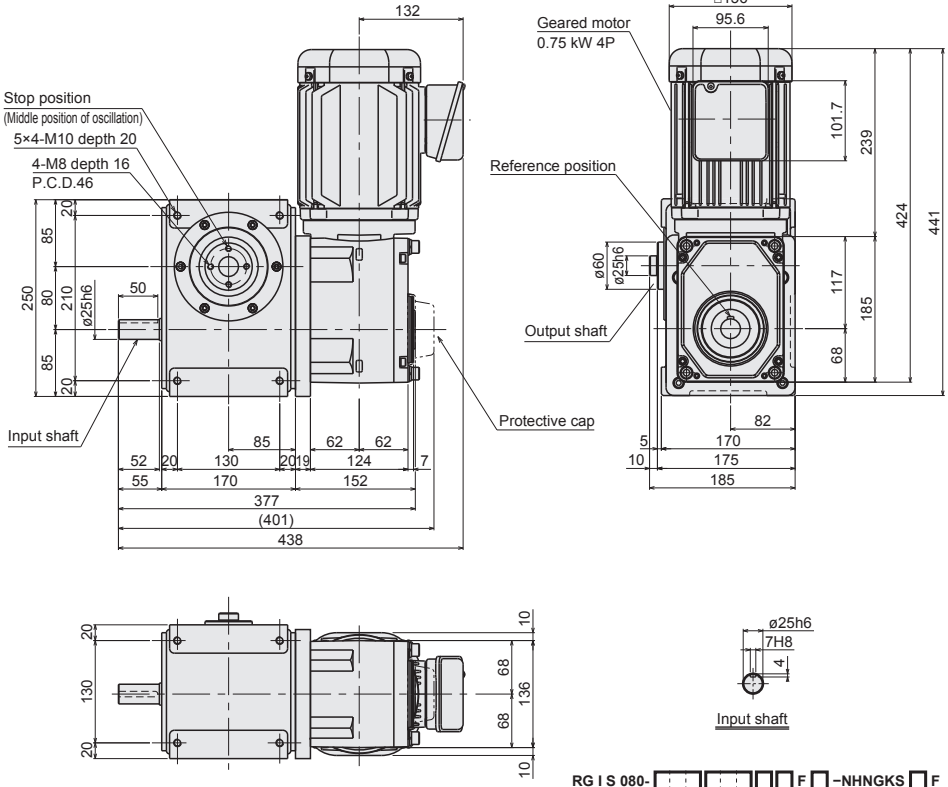
Parallel cam drive

Circular

Linear

Option

Roller gear cam drive



RG I S 080- F -NHNGKS F
 RGOS 080
 RGCS 080

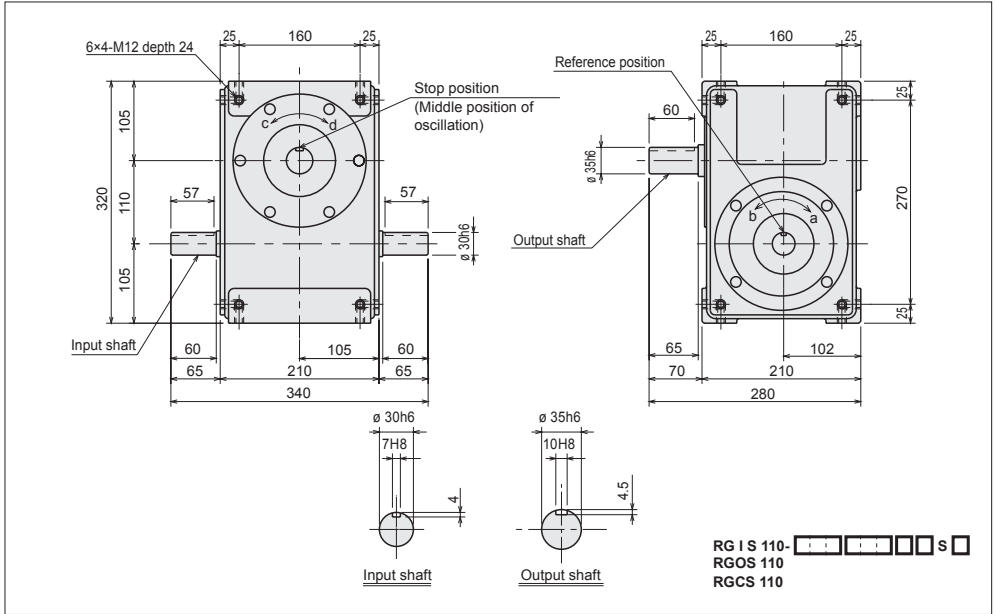
Difference between shafts: **110** mm Straight shaft

Standard

| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

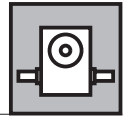
Standard specifications

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|-------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | The dimensions in () are for RGOS. | |
| | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc³/8) ○ Oil level gauge ($\phi 30$) | | | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | The dimensions in () are for RGOS. | | | |



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------------|-----------------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 4900 | 3500 |
| Allowable radial force | N | 6200 | 3600 |
| Allowable bending moment | N·m | 180 | - |
| Moment of inertia | kg·m ² | 8.92×10^{-3} | 1.36×10^{-2} |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 15 |
| Product weight | kg | 60 |
| Oil level | ℓ | 3.8 |
| Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 110** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 110** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | ○ | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 110**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts:

110 mm

Straight shaft

| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

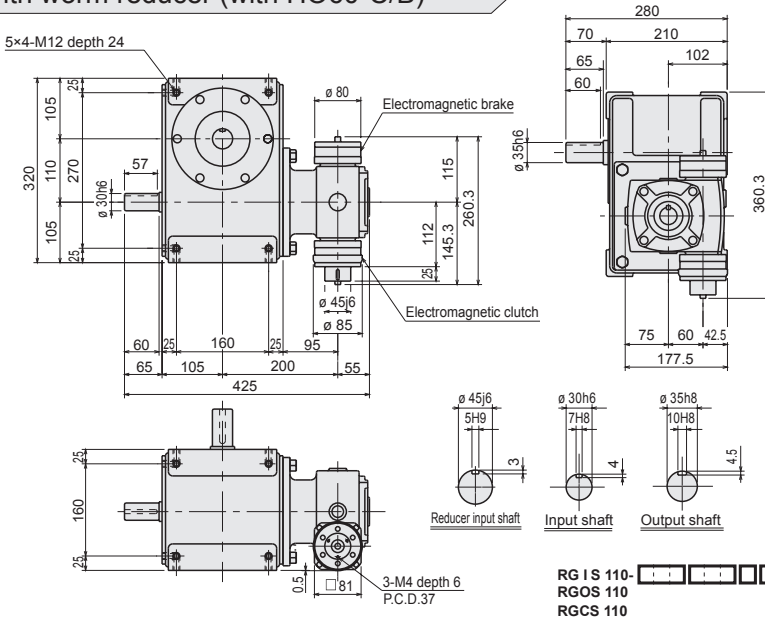
● Dimensions with options

Product specifications

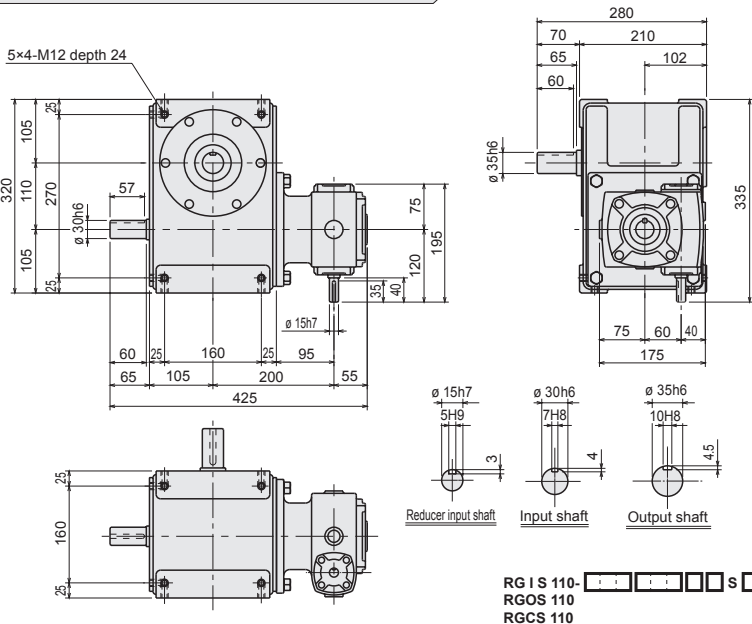
Compact
Standard
Table
Wide angle
Roller gear cam drive

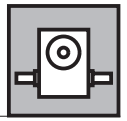
Flat
Basic
Parallel cam drive
Circular
Linear
Option

With worm reducer (with HO60-C/B)

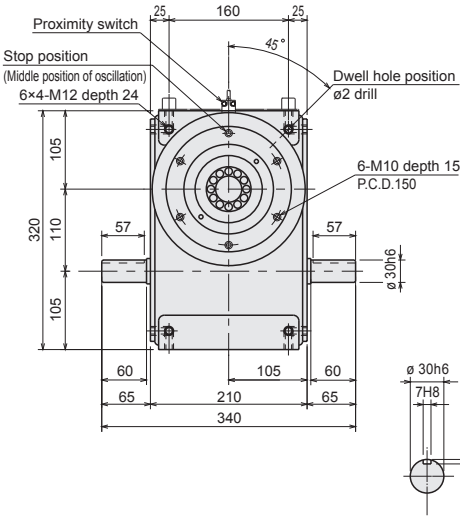


With worm reducer (without HO60-C/B)

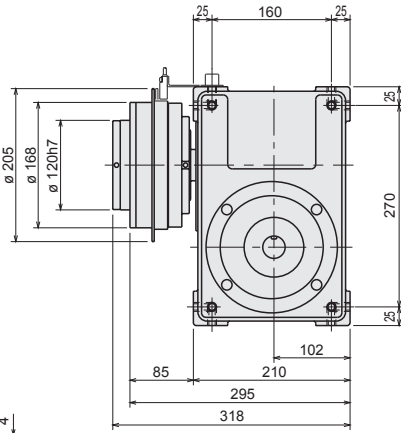




With Torque saver (TSF11)

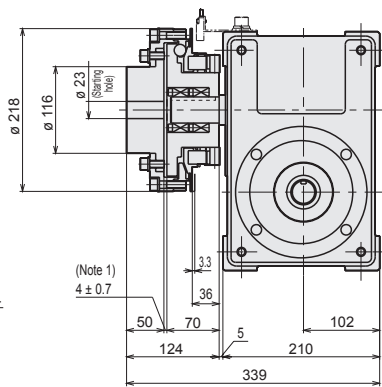
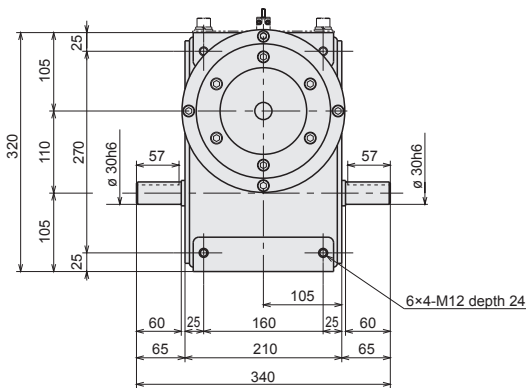


Input shaft



RG I S 110- [] [] [] [] [] S [] -NNF-11 []
 RGOS 110
 RGCS 110

With Torque guard (TGX70)



RG I S 110- [] [] [] [] [] S [] -NNX-70 []
 RGOS 110
 RGCS 110

Note 1: Attach to the equipment within the dimensions specified.

Product specifications

Roller gear cam drive
 Compact multi-index
 Standard
 Compact

Table
 Wide angle

Flat

Basic

Parallel cam drive
 Linear
 Circular

Option

Difference between shafts:

110 mm

Straight shaft

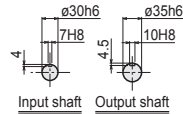
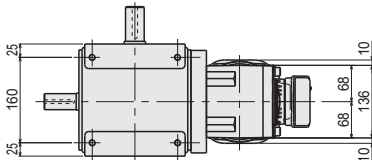
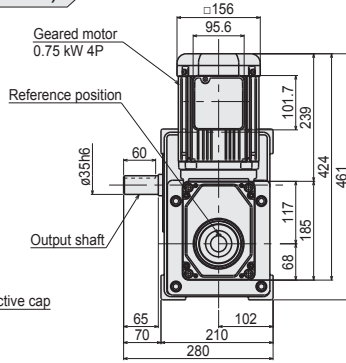
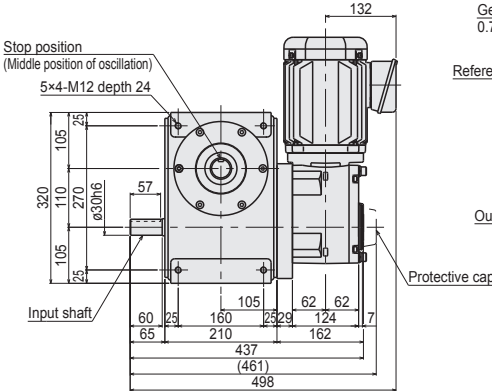
| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

● Dimensions with options

Product specifications

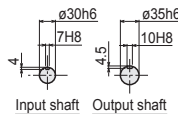
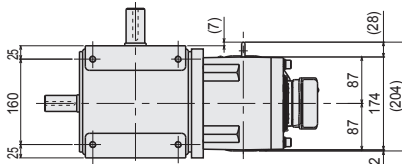
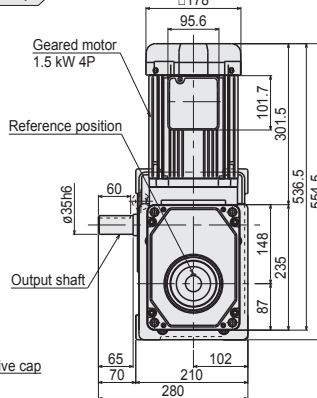
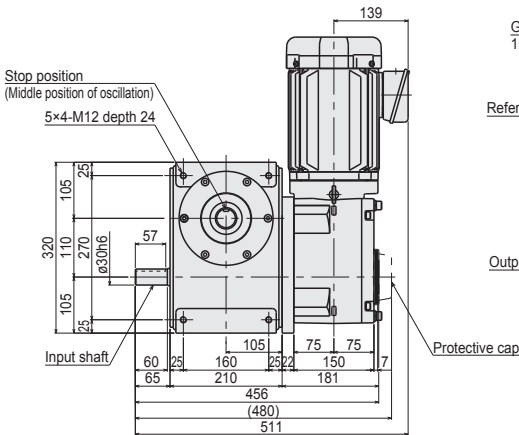
| | | | | | | | | | |
|---------|----------|-------|------------|---------------------|------|-------|--------------------|----------|-------------|
| Compact | Standard | Table | Wide angle | Compact multi-index | Flat | Basic | Parallel cam drive | Circular | Linear |
| | | | | | | | | Face and | Plate drive |
| | | | | | | | | | Option |

With the hollow shaft geared motor (0.75 kW)



RG I S 110- [] [] [] [] [] S [] -NHNGKS [] F
 RGOS 110
 RGCS 110

With the hollow shaft geared motor (1.5 kW)



RG I S 110- [] [] [] [] [] S [] -NHNGLS [] F
 RGOS 110
 RGCS 110

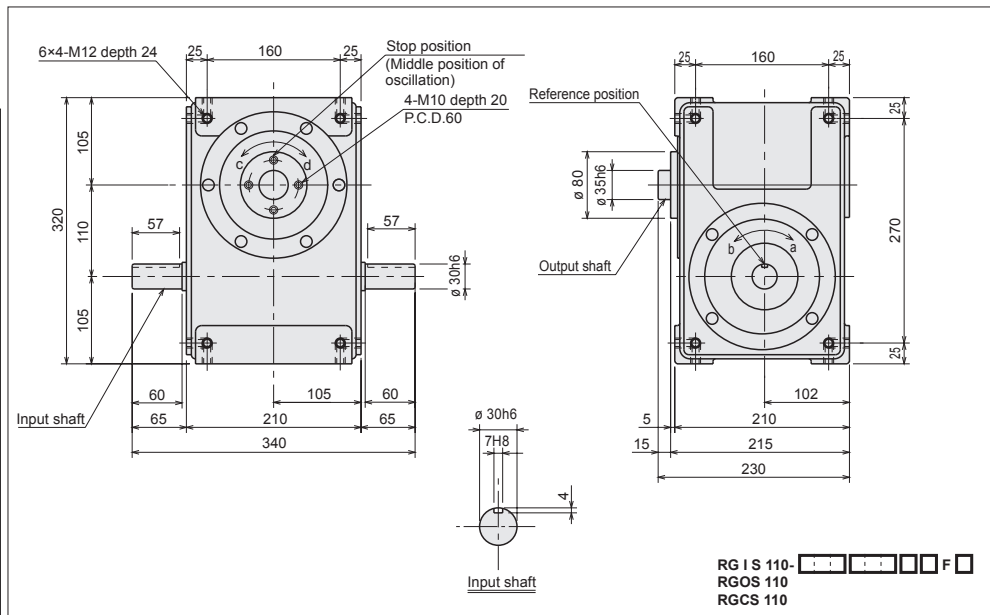
Difference between shafts: **110** mm Flange shaft

Standard

| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

Standard specifications

Dimensions

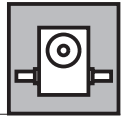


Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 |
|-----------------------|----------------|----------------|-------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | |
| | | | The dimensions in () are for RGOS. |

- Oil fill/drain port (Rc³/8)
- Oil level gauge (ø 30)

| Installation position | 4 | 5 | 6 | |
|-----------------------|-------------------------------------|----------------|----------------|------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGOS |
| Dimensions | | | | |
| | The dimensions in () are for RGOS. | | | |



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------------|-----------------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 4900 | 3500 |
| Allowable radial force | N | 6800 | 3600 |
| Allowable bending moment | N·m | 350 | - |
| Moment of inertia | kg·m ² | 1.38×10^{-2} | 1.36×10^{-2} |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 15 |
| Product weight | kg | 60 |
| Oil level | ℓ | 3.8 |
| Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 110** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 110** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | ○ | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 110**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

Circular

Option

Option

Option

Option

Option

Option

Option

Option

Option

Option

Option

Difference between shafts:

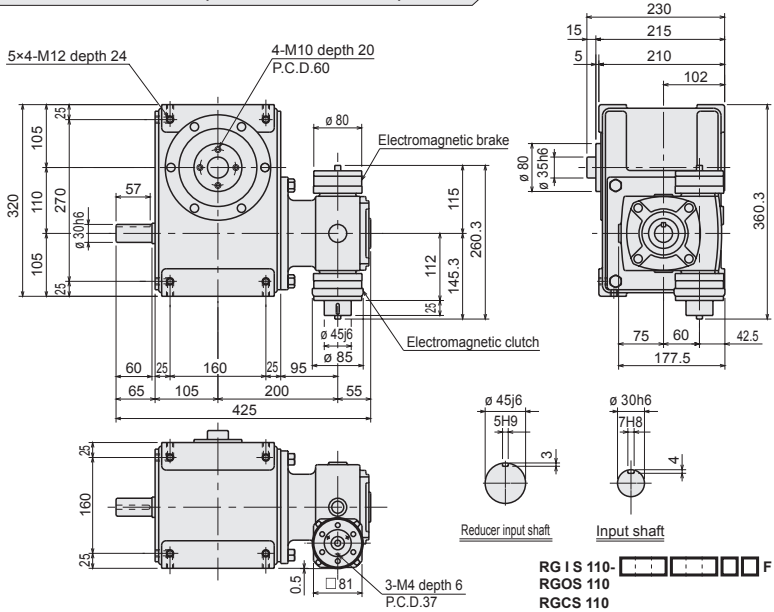
110 mm

Flange shaft

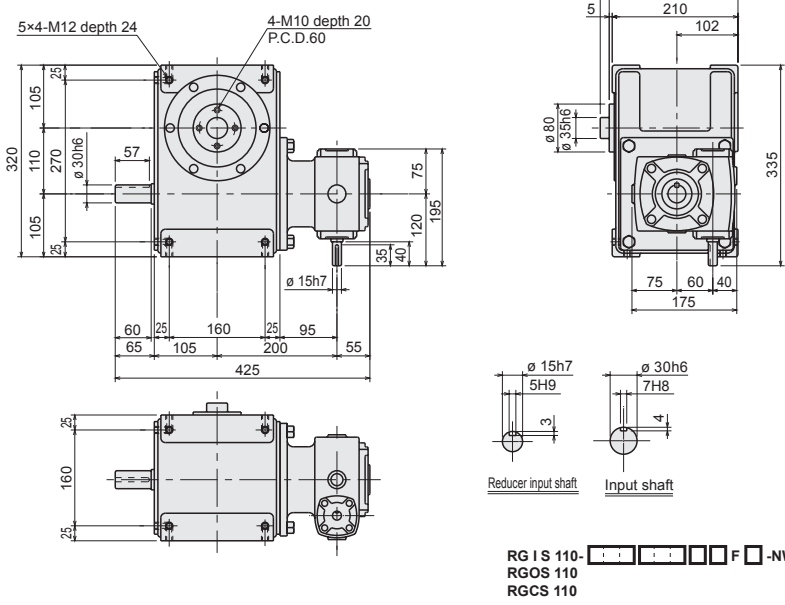
| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

● Dimensions with options

With worm reducer (with HO60-C/B)



With worm reducer (without HO60-C/B)



Product specifications

Compact

Standard

Table

Wide angle

Roller gear cam drive

Compact multi-index

Flat

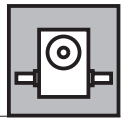
Basic

Parallel cam drive

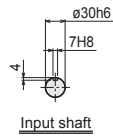
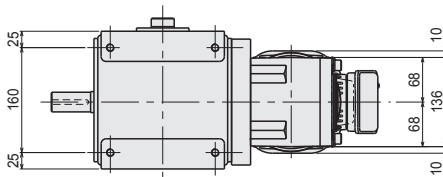
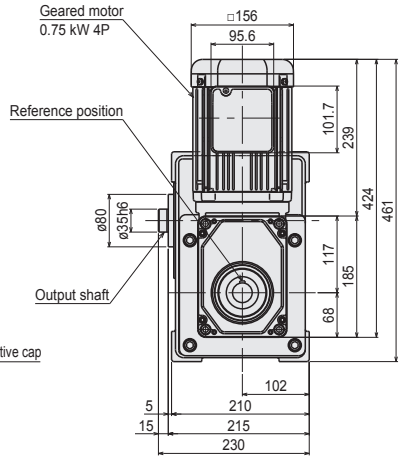
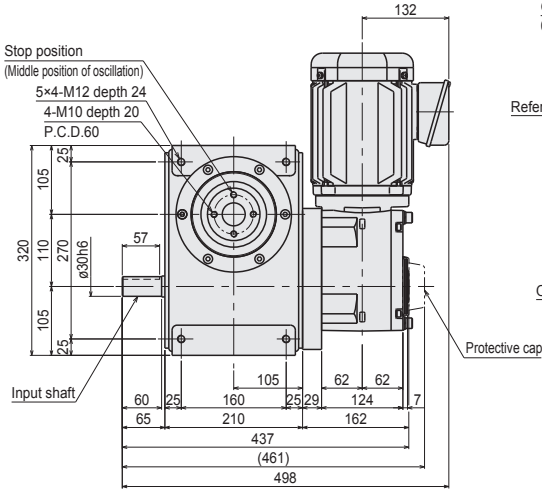
Circular

Linear

Option



With the hollow shaft geared motor (0.75 kW)



RG I S 110------ F -NHNGKS F

RGOS 110

RGCS 110

Product specifications

| | | | |
|-----------------------|------------|----------|---------|
| Roller gear cam drive | Table | Standard | Compact |
| Compact multi-index | Wide angle | | |
| Flat | | | |
| Basic | | | |

Parallel cam drive

| | |
|----------------------|----------|
| Pick and Place drive | |
| Linear | Circular |

Option

Difference between shafts:

110 mm

Flange shaft

| | |
|------------|-------------------|
| Index | RG I S 110 |
| Oscillator | RGOS 110 |
| Reducer | RGCS 110 |

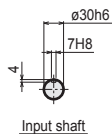
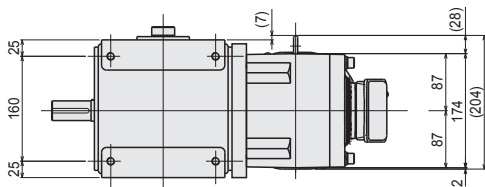
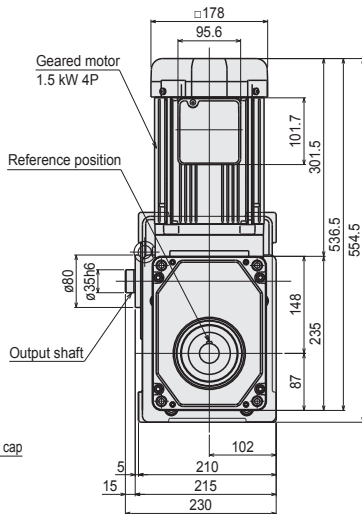
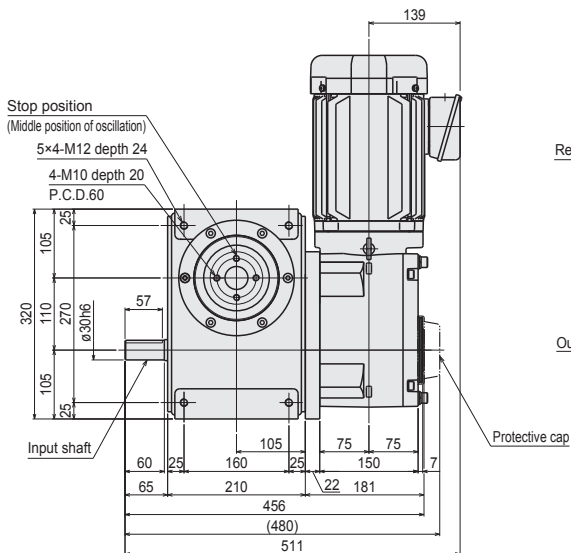
● Dimensions with options



Product specifications

With the hollow shaft geared motor (1.5 kW)

Compact
 Standard
 Table
 Wide angle
 Compact multi-index
 Roller gear cam drive
 Flat
 Basic
 Parallel cam drive
 Linear
 Circular
 Piece and
 Piece drive
 Option



RG I S 110- [] [] [] [] [] [] F [] -NHNGLS [] F
 RGOS 110
 RGCS 110

Difference between shafts: **140** mm Straight shaft

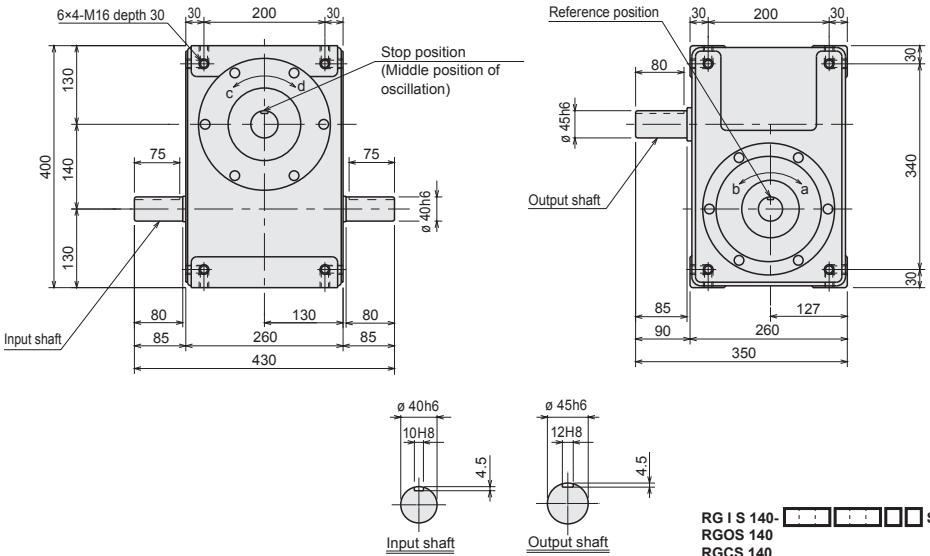
Standard

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

● Standard specifications

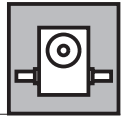
Product specifications

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 |
|-----------------------|-------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS |
| Dimensions | | | |
| | | | The dimensions in () are for RGOS. |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port ($Rc^3/8$) ○ Oil level gauge ($\varnothing 30$) |
| Installation position | 4 | 5 | 6 |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS |
| Dimensions | | | |
| | The dimensions in () are for RGOS. | | |



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------------|-----------------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 7300 | 4500 |
| Allowable radial force | N | 9500 | 4200 |
| Allowable bending moment | N·m | 450 | - |
| Moment of inertia | kg·m ² | 2.53×10^{-2} | 5.42×10^{-2} |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 24 |
| Product weight | kg | 115 |
| Oil level | ℓ | 6 |
| Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 140** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 140** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 140**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Compact multi-index

Flat

Basic

Parallel cam drive

Linear

Circular

Option

Difference between shafts:

140 mm

Straight shaft

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

● Dimensions with options

Product specifications

Compact Standard Table Wide angle Compact multi-index Roller gear cam drive

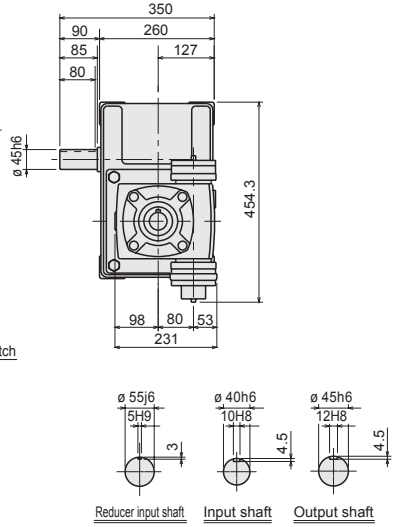
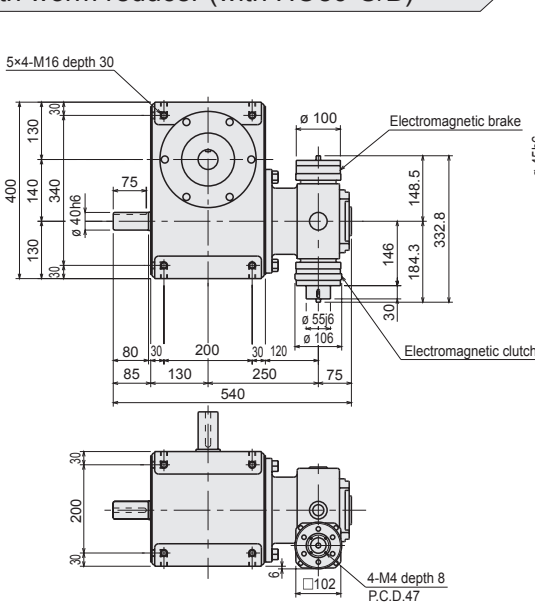
Flat Basic

Parallel cam drive

Circular Piece and Place drive

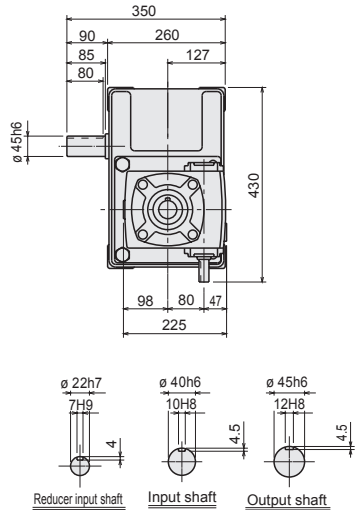
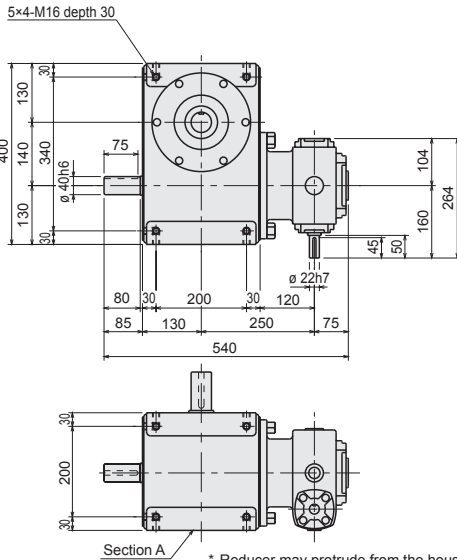
Option

With worm reducer (with HO80-C/B)



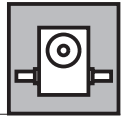
RG I S 140- [] [] [] [] [] S [] -NWN08 [] YG
 RGOS 140
 RGCS 140

With worm reducer (without HO80-C/B)

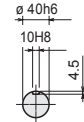
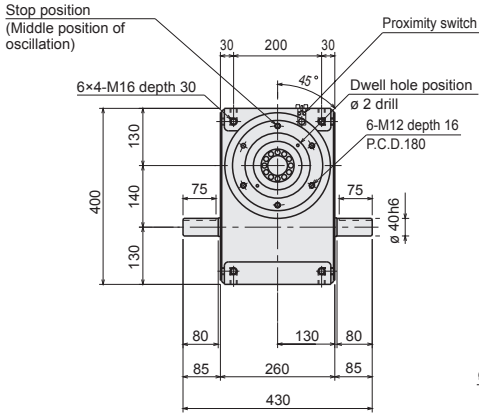


RG I S 140- [] [] [] [] [] S [] -NWN08 [] NG
 RGOS 140
 RGCS 140

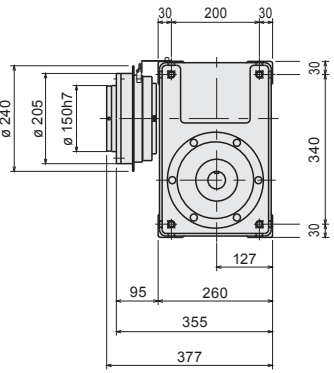
* Reducer may protrude from the housing end face (section A).



With Torque saver (TSF14)



Input shaft



RG I S 140- [] [] [] [] S [] -NNF-14 []
 RGOS 140
 RGCS 140

Product specifications

| | | | | | | | |
|--------|--------------------------------------------|---------------------|------|---------------------|-----------------------|----------|----------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | |
| | | Basic | Flat | Compact multi-index | Wide angle | Table | Standard |
| | | Compact multi-index | | Wide angle | Table | Standard | Compact |

Difference between shafts:

140 mm

Straight shaft

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

● Dimensions with options

Product specifications

Compact

Standard

Table

Wide angle

Compact multi-index

Roller gear cam drive

Flat

Basic

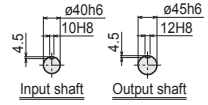
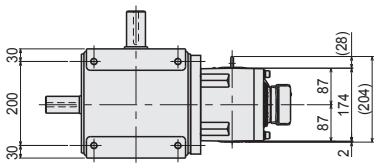
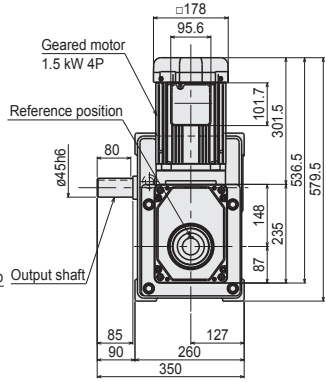
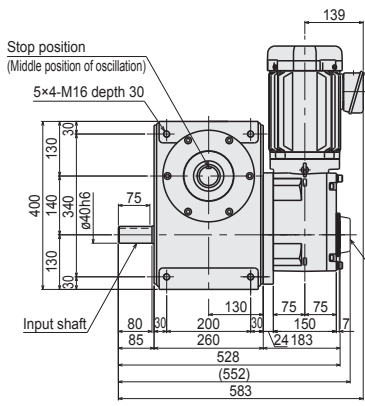
Parallel cam drive

Circular

Linear

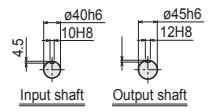
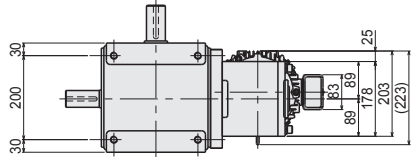
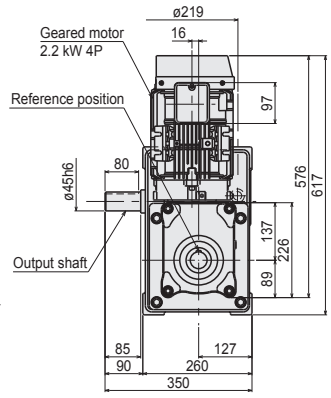
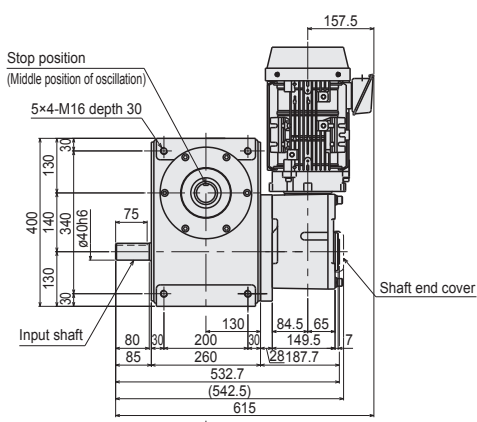
Option

With the hollow shaft geared motor (1.5 kW)



RG I S 140 - [] [] [] [] [] S [] -NHNGLS [] F
 RGOS 140
 RGCS 140

With the hollow shaft geared motor (2.2 kW)



RG I S 140 - [] [] [] [] [] S [] -NHNTMS [] F
 RGOS 140
 RGCS 140

Difference between shafts: **140** mm Flange shaft

Standard

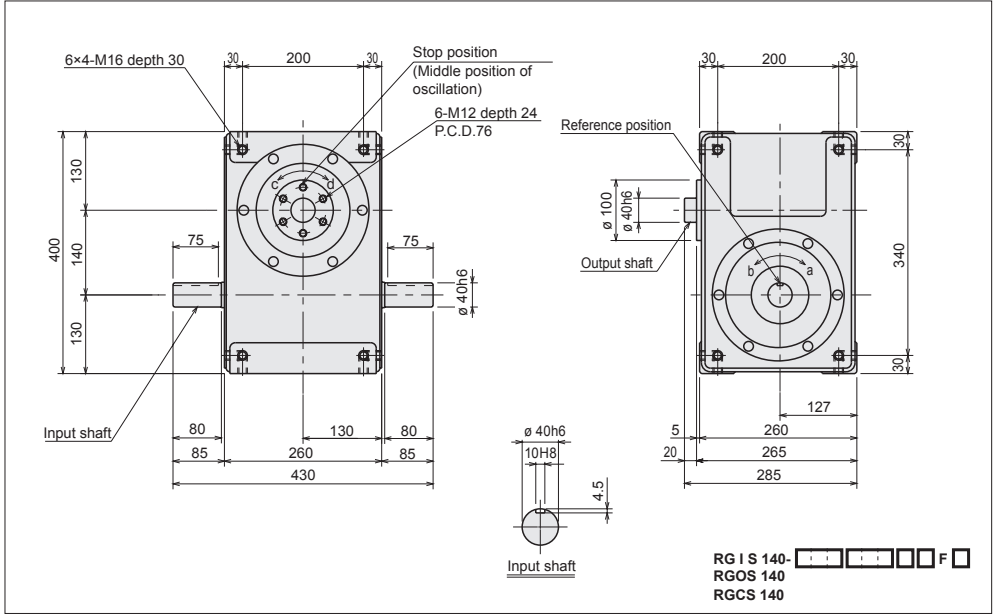
● Standard specifications

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

Product specifications

Compact
Standard
Table
Wide angle
Roller gear cam drive
Compact multi-index
Flat

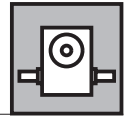
Dimensions



Basic
Parallel cam drive
Circular
Linear
Option

Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc³/8) ○ Oil level gauge (ø 30) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | The dimensions in () are for RGOS. | | | |



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------------|-----------------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 7300 | 4500 |
| Allowable radial force | N | 9500 | 4200 |
| Allowable bending moment | N·m | 600 | - |
| Moment of inertia | kg·m ² | 3.93×10^{-2} | 5.42×10^{-2} |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 24 |
| Product weight | kg | 115 |
| Oil level | ℓ | 6 |
| Paint color | | Silver |

List of index angles

Index series **RGIS 140** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | |
| | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 140** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | ○ | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 140**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts: **140 mm**

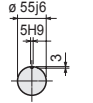
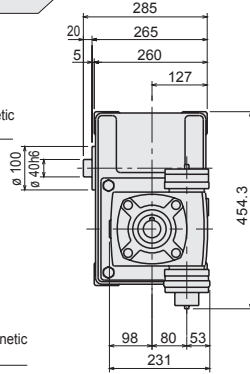
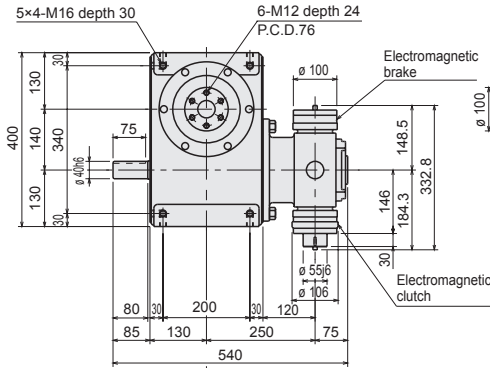
Flange shaft

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

● Dimensions with options

Product specifications

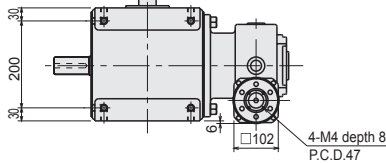
With worm reducer (with HO80-C/B)



Reducer input shaft

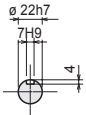
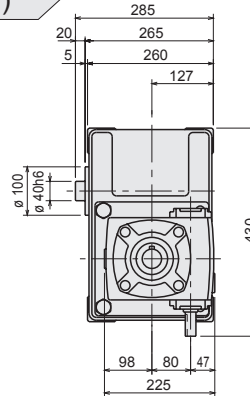
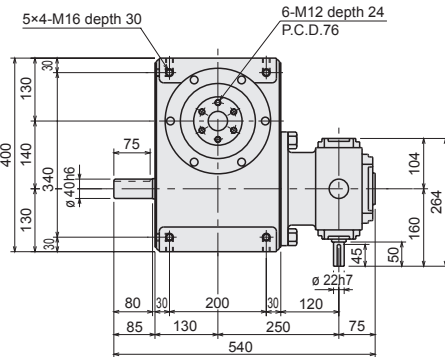


Input shaft



RG I S 140- [] [] [] [] [] [] F [] -NWN08 [] YG
 RGOS 140
 RGCS 140

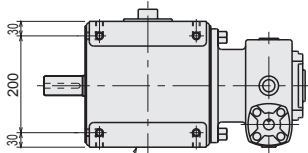
With worm reducer (without HO80-C/B)



Reducer input shaft



Input shaft

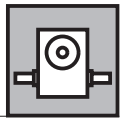


Section A

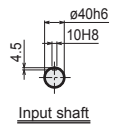
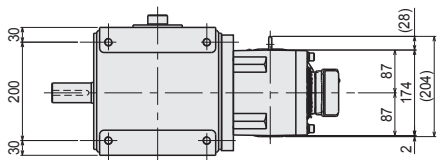
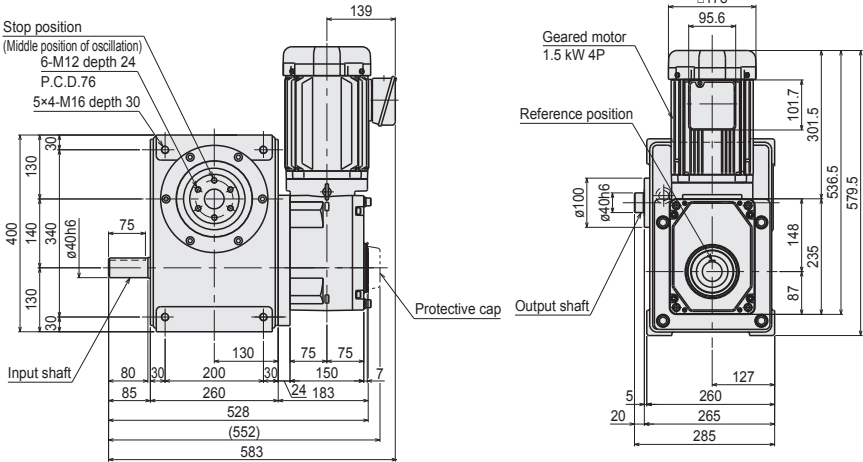
* Reducer may protrude from the housing end face (section A).

RG I S 140- [] [] [] [] [] [] F [] -NWN08 [] NG
 RGOS 140
 RGCS 140

Compact
 Standard
 Table
 Roller gear cam drive
 Wide angle
 Compact multi-index
 Flat
 Basic
 Parallel cam drive
 Circular
 Linear
 Flange and
 Flange drive
 Option



With the hollow shaft geared motor (1.5 kW)



RG I S 140- F -NHNGLS F
 RGOS 140
 RGCS 140

Product specifications

| | | | | | | | | | |
|--------|--------------------------------------------|--------------------|------------|-------|---------------------|-----------------------|-------|----------|---------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | Basic | Flat | Compact multi-index | Roller gear cam drive | Table | Standard | Compact |
| | | | Wide angle | Table | Standard | Compact | | | |
| | | | Wide angle | Table | Standard | Compact | | | |

Difference between shafts:

140 mm

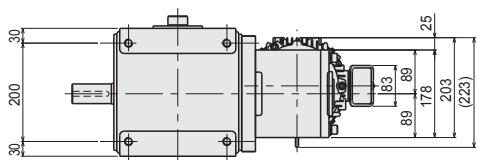
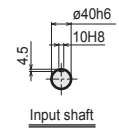
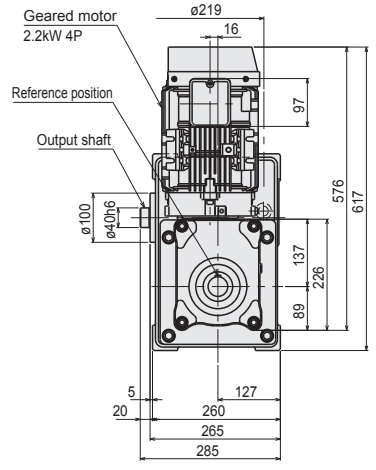
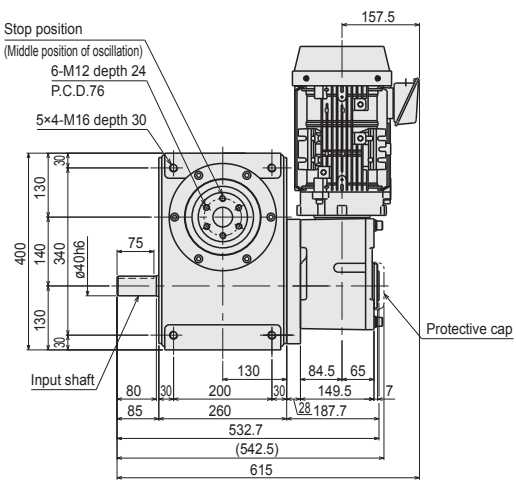
Flange shaft

| | |
|------------|-------------------|
| Index | RG I S 140 |
| Oscillator | RGOS 140 |
| Reducer | RGCS 140 |

● Dimensions with options



With the hollow shaft geared motor (2.2 kW)



RG I S 140- [] [] [] [] [] F [] -NHNTMS [] F
 RGOS 140
 RGCS 140

| | |
|------------------------|------------------------|
| Product specifications | Compact |
| | Standard |
| | Table |
| | Wide angle |
| Roller gear cam drive | Compact multi-index |
| | Flat |
| | Basic |
| Parallel cam drive | Linear |
| | Circular |
| Option | Flange and Plate drive |

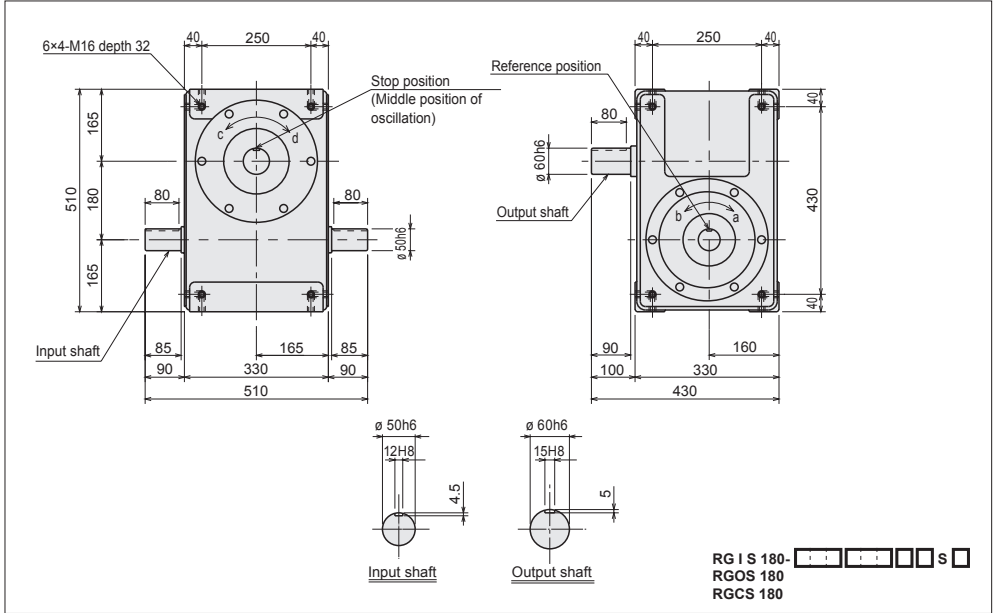
Difference between shafts: **180** mm Straight shaft

Standard

| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

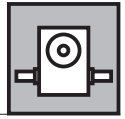
● Standard specifications

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-----------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc1/2) ○ Oil level gauge ($\varnothing 30$) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |



Characteristics

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-----------------|-------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 12000 | 6800 | Internal frictional torque (Tin) | N·m | 39 |
| Allowable radial force | N | 15000 | 6500 | Product weight | kg | 230 |
| Allowable bending moment | N·m | 700 | - | Oil level | ℓ | 12.5 |
| Moment of inertia | kg·m ² | 0.10 | 0.37 | Paint color | | Silver |

List of index angles

Index series **RGIS 180** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 180** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 180**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts:

180 mm

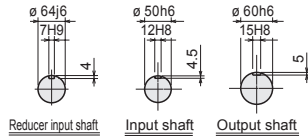
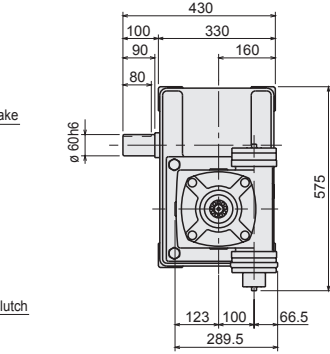
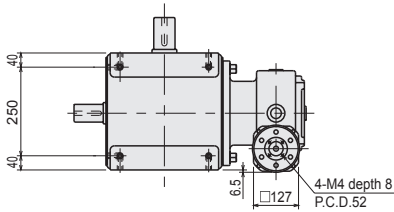
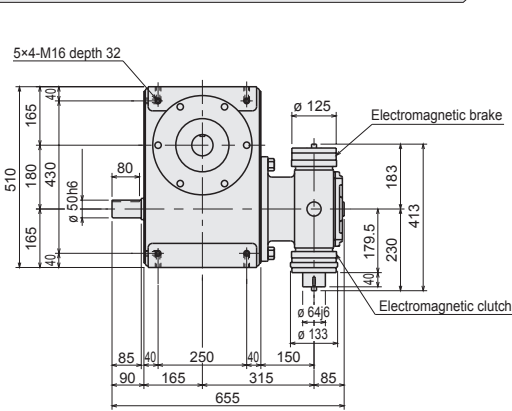
Straight shaft

| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

● Dimensions with options

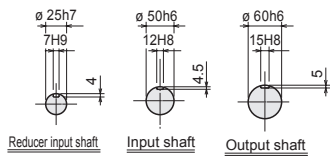
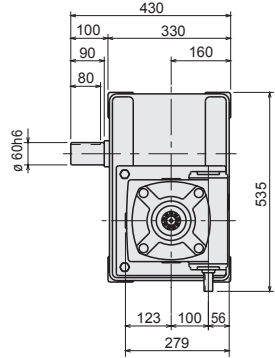
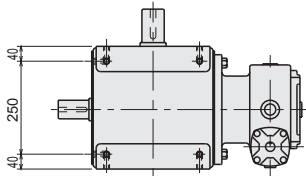
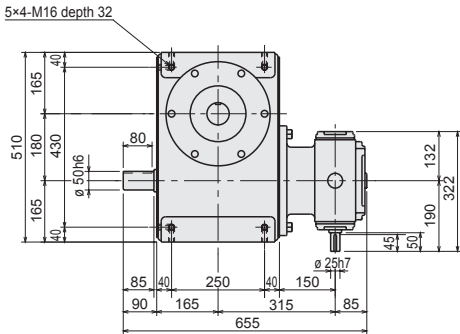
Product specifications

With worm reducer (with HO100-C/B)



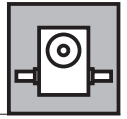
RG I S 180- [] [] [] [] [] S [] -NWN10 [] YG
 RGOS
 RGCS

With worm reducer (without HO100-C/B)

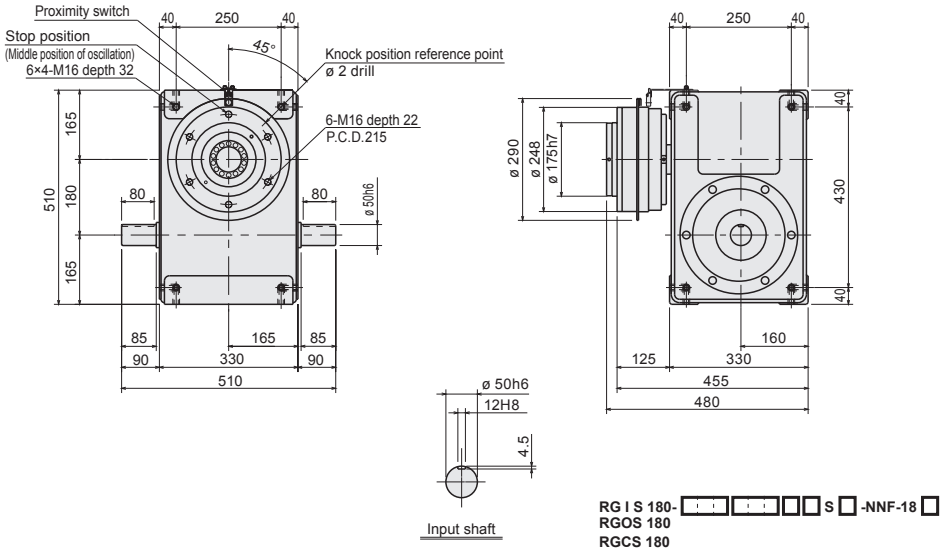


RG I S 180- [] [] [] [] [] S [] -NWN10 [] NG
 RGOS
 RGCS

Compact Standard Table Wide gear cam drive Compact multi-index Roller gear cam drive Flat Basic Parallel cam drive Circular Face and Pinion drive Option



With Torque saver (TSF18)



Product specifications

| | | | | | | | | |
|--------|--------------------------------------------|--------------------|------|---------------------|-----------------------|-------|----------|---------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | | |
| | | Basic | Flat | Compact multi-index | Wide angle | Table | Standard | Compact |
| | | | | | | | | |

Difference between shafts:

180 mm

Straight shaft

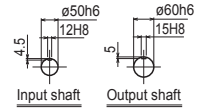
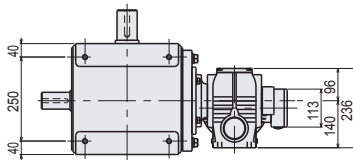
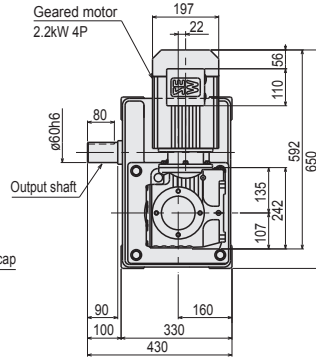
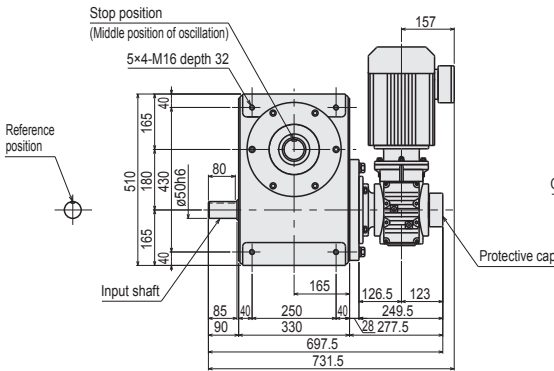
| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

● Dimensions with options

Product specifications

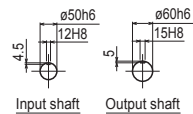
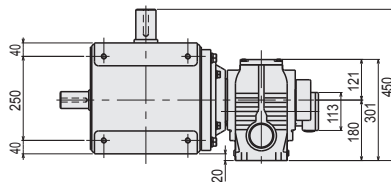
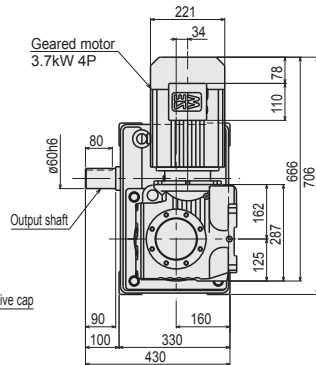
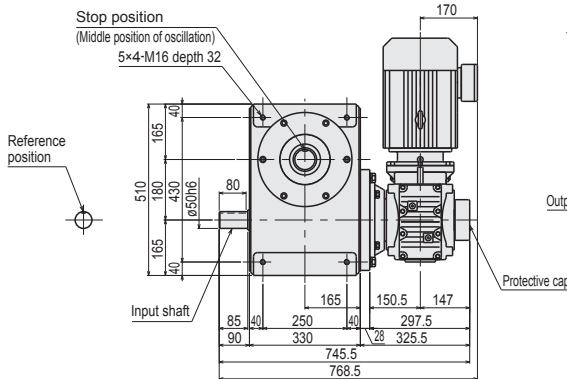
- Compact
- Standard
- Table
- Wide gear cam drive
- Compact multi-index
- Wide angle
- Roller gear cam drive
- Flat
- Basic
- Parallel cam drive
- Circular
- Linear
- Option

With the hollow shaft geared motor (2.2 kW)



RG I S 180- [] [] [] [] [] S -NHNWMS [] F
 RGOS 180
 RGCS 180

With the hollow shaft geared motor (3.7 kW)



RG I S 180- [] [] [] [] [] S -NHNWNS [] F
 RGOS 180
 RGCS 180

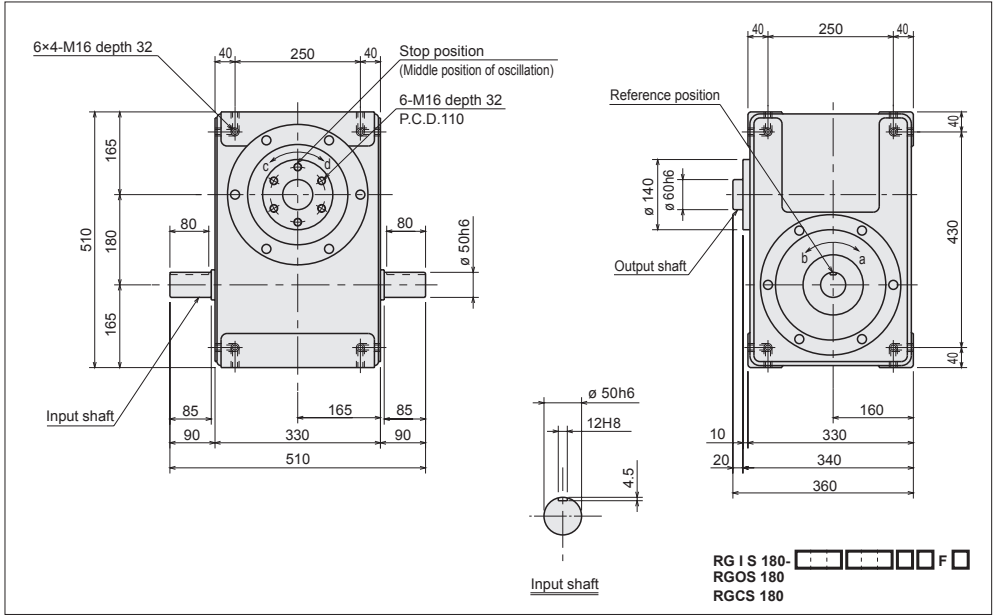
Difference between shafts: **180** mm Flange shaft

Standard

| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

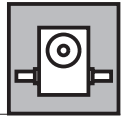
● Standard specifications

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-----------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|-------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | The dimensions in () are for RGOS. | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc1/2) ○ Oil level gauge (Ø 30) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | The dimensions in () are for RGOS. | | | |



Characteristics

| Descriptions | Unit | Characteristics | | Descriptions | Unit | Characteristics |
|--------------------------|-------------------|-----------------|-------------|----------------------------------|------|-----------------|
| | | Output shaft | Input shaft | | | |
| Allowable thrust force | N | 12000 | 6800 | Internal frictional torque (Tin) | N·m | 39 |
| Allowable radial force | N | 19000 | 6500 | Product weight | kg | 230 |
| Allowable bending moment | N·m | 1000 | - | Oil level | ℓ | 12.5 |
| Moment of inertia | kg·m ² | 0.15 | 0.37 | Paint color | | Silver |

List of index angles

Index series **RGIS 180** Cam curve/MS

| Total index angle (θt) | | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | | |
| 1 dwell | 2 | | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillating series **RGOS 180** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

Reducer series **RGCS 180**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat
Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts:

180 mm

Flange shaft

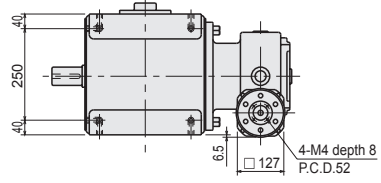
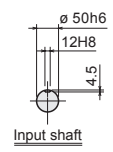
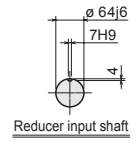
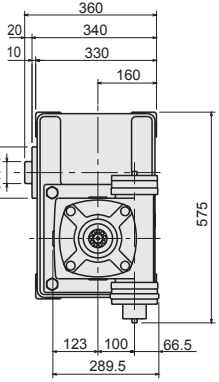
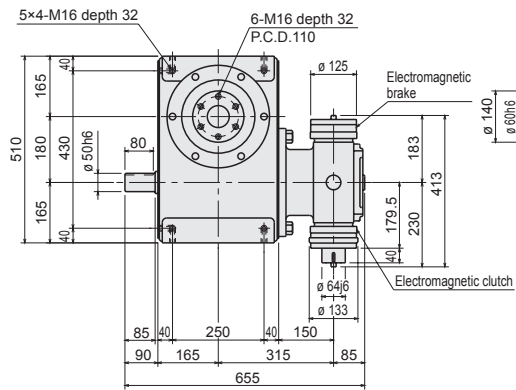
| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

● Dimensions with options

Product specifications

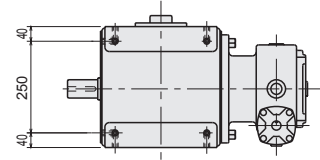
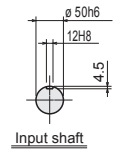
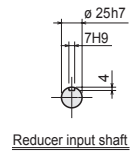
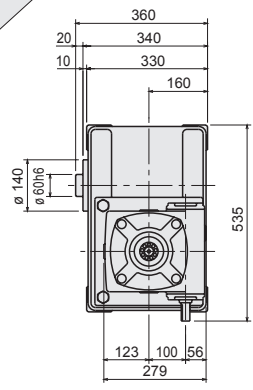
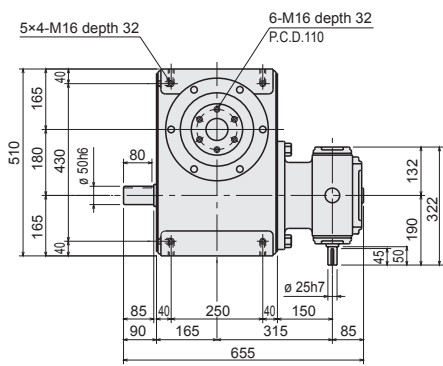
| | | | | | | | | |
|----------|-----------------------|------------|---------------------|------|-------|--------------------|----------|--------|
| Compact | Table | Wide angle | Compact multi-index | Flat | Basic | Parallel cam drive | Circular | Option |
| Standard | Roller gear cam drive | | | | | | Linear | |

With worm reducer (with HO100-C/B)

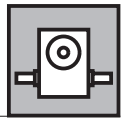


RG I S 180- [] [] [] [] [] F [] -NWN10 [] YG
 RGOS 180
 RGCS 180

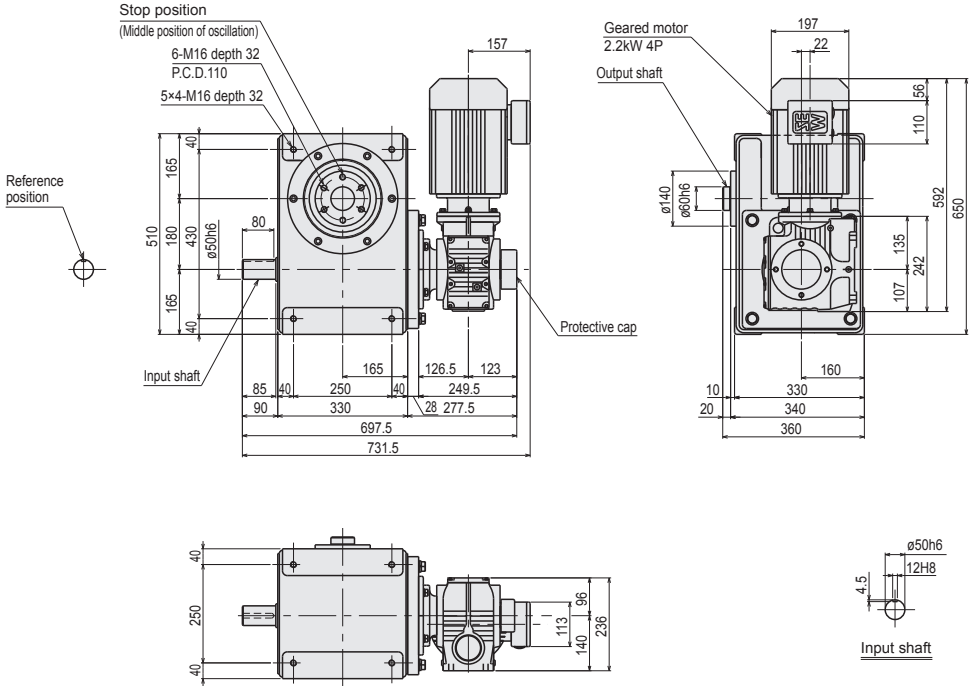
With worm reducer (without HO100-C/B)



RG I S 180- [] [] [] [] [] F [] -NWN10 [] NG
 RGOS 180
 RGCS 180



With the hollow shaft geared motor (2.2 kW)



RG I S 180- F -NHNWMS F

RGOS 180

RGCS 180

Product specifications

| | | | | | | | | | |
|--------|--------------------------------------------|--------------------|--|--|-----------------------|--|--|--------------------------------------|----------|
| Option | Pick and Place drive Linear Circular | Parallel cam drive | | | Roller gear cam drive | | | Compact multi-index Flat Basic | |
| | | Wide angle | | | Table | | | | Standard |
| | | Table | | | Compact | | | | |

Difference between shafts:

180 mm

Flange shaft

| | |
|------------|-------------------|
| Index | RG I S 180 |
| Oscillator | RGOS 180 |
| Reducer | RGCS 180 |

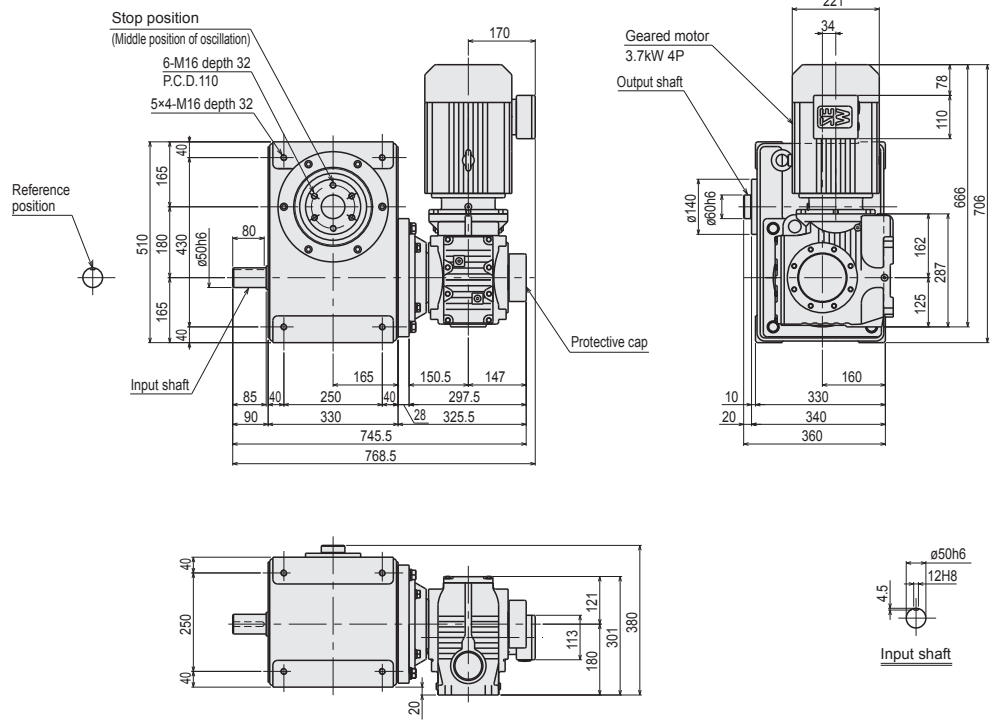
● Dimensions with options



With the hollow shaft geared motor (3.7 kW)

Product specifications

| |
|-----------------------|
| Compact |
| Standard |
| Table |
| Wide angle |
| Compact multi-index |
| Roller gear cam drive |
| Flat |
| Basic |
| Parallel cam drive |
| Circular |
| Linear |
| Option |



RG I S 180- [] [] [] [] [] [] [] [] [] [] F [] -NHNWNS [] F
 RGOS 180
 RGCS 180

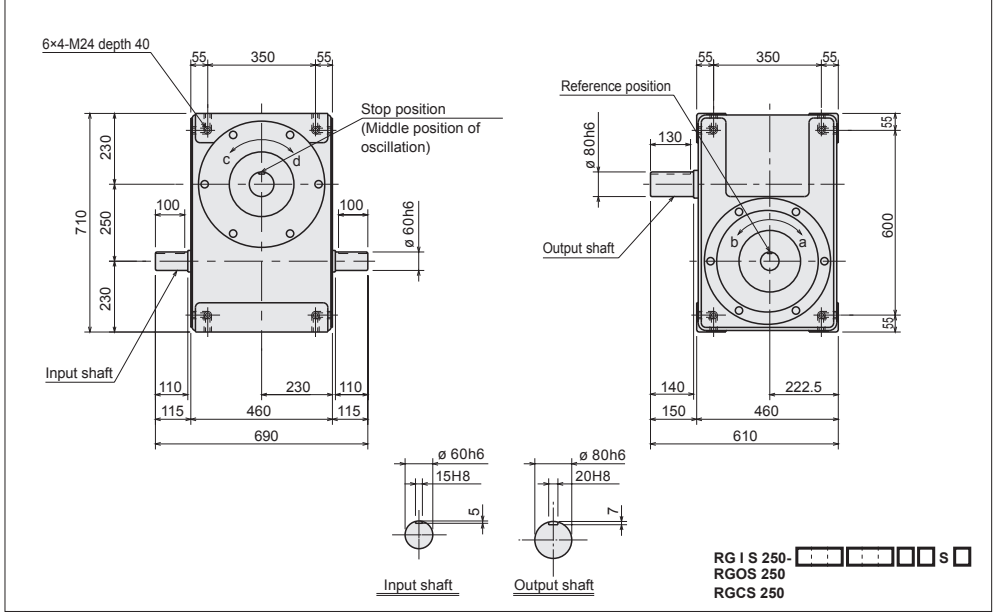
Difference between shafts: **250** mm Straight shaft

Standard

| | |
|------------|-------------------|
| Index | RG I S 250 |
| Oscillator | RGOS 250 |
| Reducer | RGCS 250 |

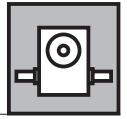
● Standard specifications

Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-----------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc¹/₂) ○ Oil level gauge (ø 30) <p>The dimensions in () are for RGOS.</p> | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | | | | <p>The dimensions in () are for RGOS.</p> |



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------|-------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 26000 | 12000 |
| Allowable radial force | N | 28000 | 14000 |
| Allowable bending moment | N·m | 2500 | - |
| Moment of inertia | kg·m ² | 0.38 | 0.96 |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 76 |
| Product weight | kg | 650 |
| Oil level | ℓ | 38 |
| Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 250** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 32 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |

Oscillating series **RGOS 250** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | ○ | ○ |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 250**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts:

250 mm

Straight shaft

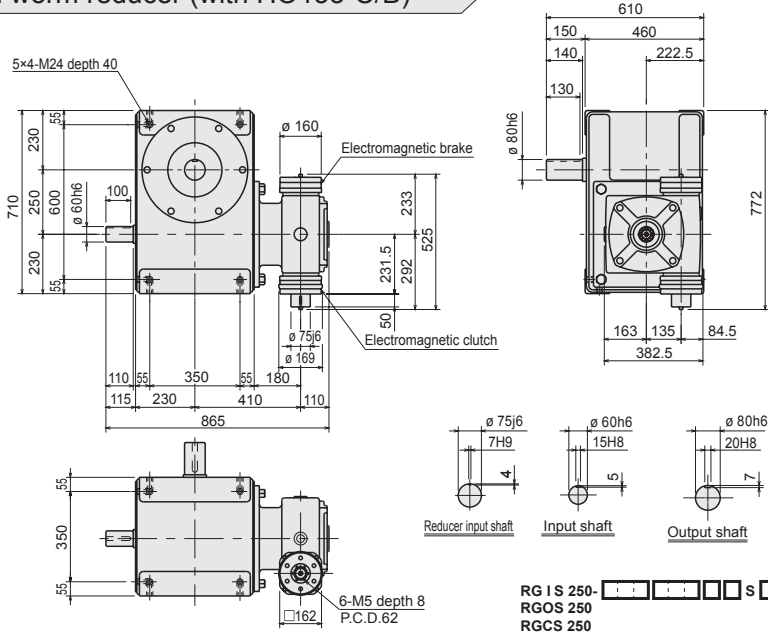
| | |
|------------|-------------------|
| Index | RG I S 250 |
| Oscillator | RGOS 250 |
| Reducer | RGCS 250 |

● Dimensions with options

Product specifications

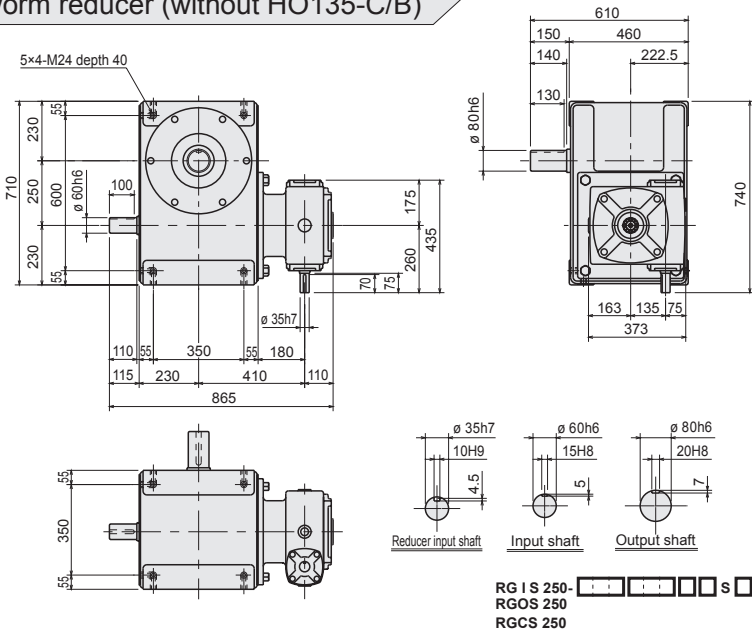
| | | | | | | | | | | |
|---------|----------|-------|------------|---------------------|------|-------|--------------------|----------------------|--------|--------|
| Compact | Standard | Table | Wide angle | Compact multi-index | Flat | Basic | Parallel cam drive | Circular | Linear | Option |
| | | | | | | | | Face and Plate drive | | |

With worm reducer (with HO135-C/B)

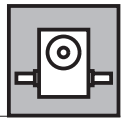


RG I S 250- [] [] [] [] [] S [] -NWN13 [] YG
 RGOS 250
 RGCS 250

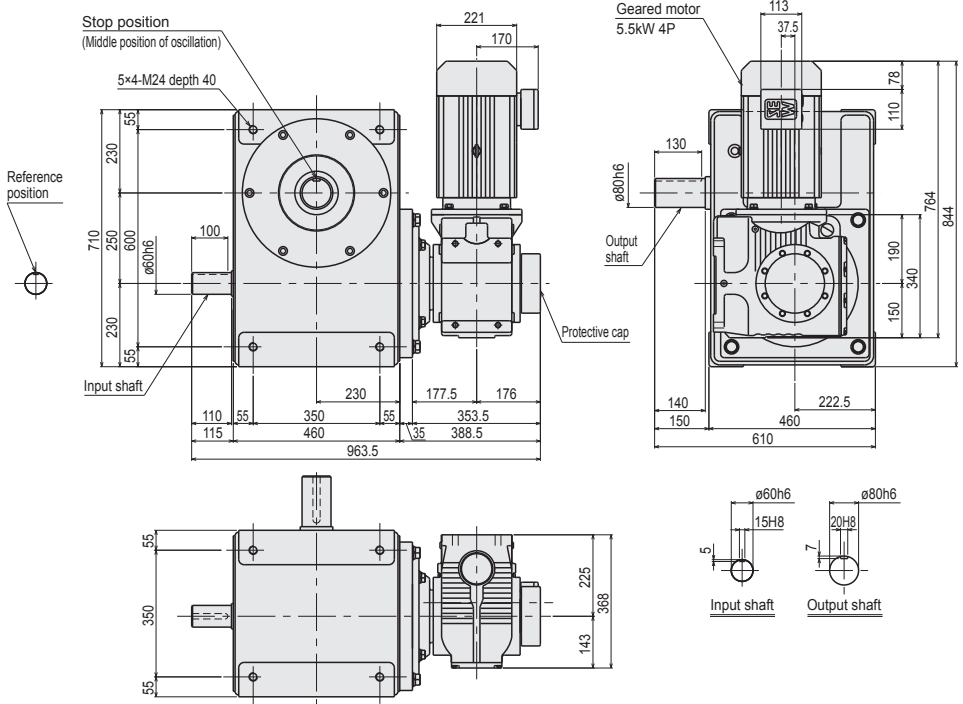
With worm reducer (without HO135-C/B)



RG I S 250- [] [] [] [] [] S [] -NWN13 [] NG
 RGOS 250
 RGCS 250



With the hollow shaft geared motor (5.5 kW)



RG I S 250- [] [] [] [] S [] -NHNWPS [] F
 RGOS 250
 RGCS 250

Product specifications

| | | | |
|-----------------------|-------|----------|---------|
| Roller gear cam drive | Table | Standard | Compact |
| Wide angle | Table | Standard | Compact |
| Compact multi-index | Table | Standard | Compact |
| Flat | Table | Standard | Compact |
| Basic | Table | Standard | Compact |

Parallel cam drive

Pick and Place drive
 Linear
 Circular

Option

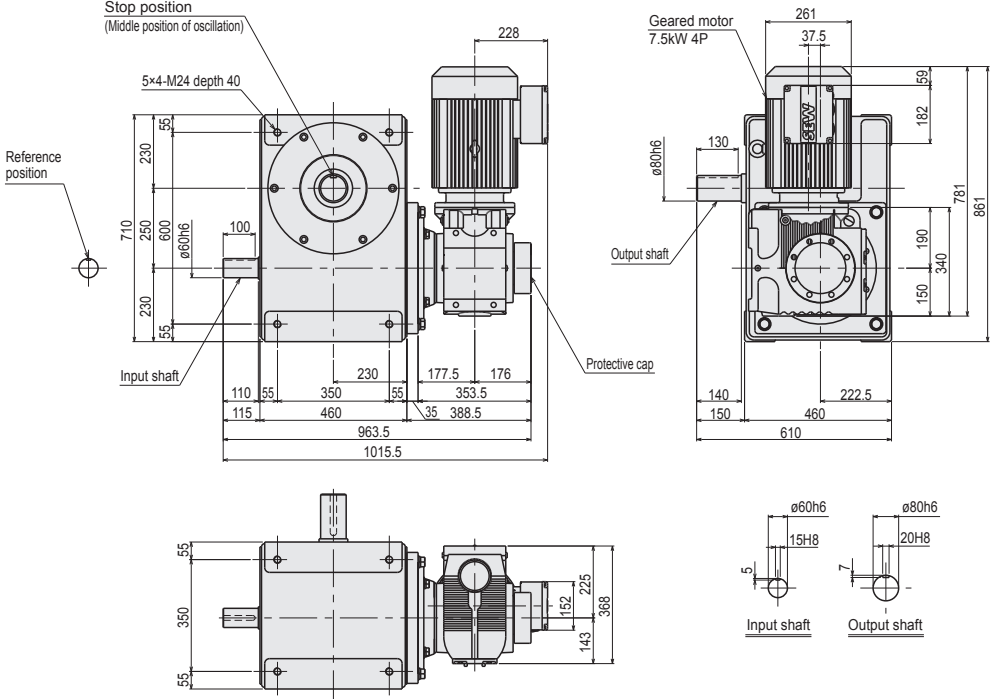
| | |
|------------|-------------------|
| Index | RG I S 250 |
| Oscillator | RGOS 250 |
| Reducer | RGCS 250 |

● Dimensions with options

With the hollow shaft geared motor (7.5 kW)

Product specifications

| | | | | | | | | | | | |
|---------|----------|-------|------------|-----------------------|---------------------|------|-------|--------------------|----------|------------|--------|
| Compact | Standard | Table | Wide angle | Roller gear cam drive | Compact multi-index | Flat | Basic | Parallel cam drive | Circular | Linear | Option |
| | | | | | | | | | Face and | Face drive | |



RG I S 250- [] [] [] [] S [] -NHNWQS [] F
 RGOS 250
 RGCS 250

Difference between shafts: **250** mm Flange shaft

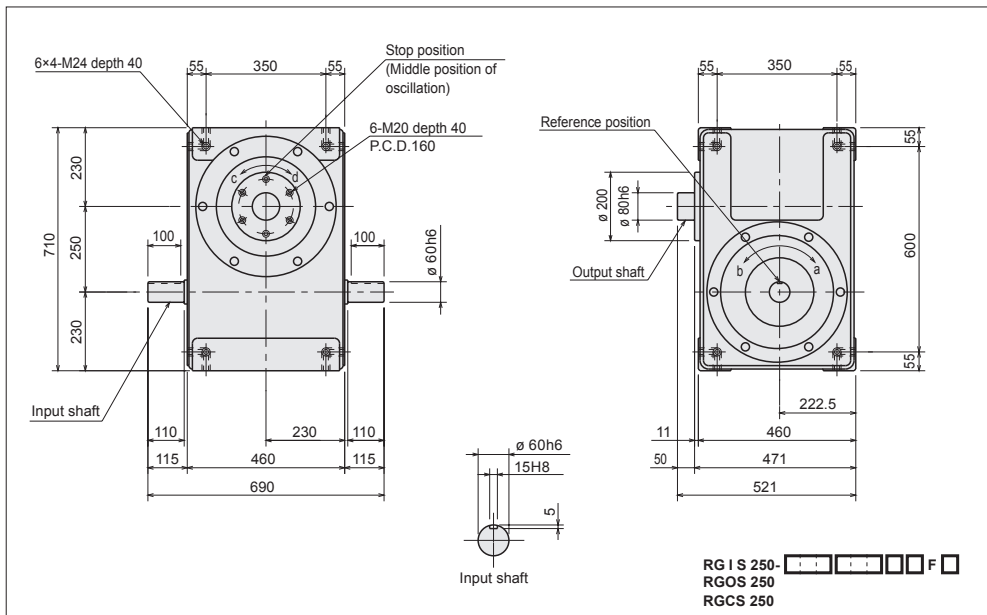
Standard

● Standard specifications

| | |
|------------|-------------------|
| Index | RG I S 250 |
| Oscillator | RGOS 250 |
| Reducer | RGCS 250 |

Product specifications

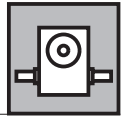
Dimensions



Installation position and oil supply/drain port and oil level gauge positions

| Installation position | 1 | 2 | 3 | |
|-----------------------|-----------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|-------------|
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |
| | | | <ul style="list-style-type: none"> ● Oil fill/drain port (Rc1/2) ○ Oil level gauge (∅ 30) | |
| Installation position | 4 | 5 | 6 | |
| Series | RGIS/RGOS/RGCS | RGIS/RGOS/RGCS | RGIS/RGCS | RGOS |
| Dimensions | | | | |
| | | | The dimensions in () are for RGOS. | |

Compact
 Standard
 Table
 Wide angle
 Roller gear cam drive
 Compact multi-index
 Flat
 Basic
 Parallel cam drive
 Circular
 Linear
 Option



Characteristics

| Descriptions | Unit | Characteristics | |
|--------------------------|-------------------|-----------------|-------------|
| | | Output shaft | Input shaft |
| Allowable thrust force | N | 26000 | 12000 |
| Allowable radial force | N | 32000 | 14000 |
| Allowable bending moment | N·m | 3000 | - |
| Moment of inertia | kg·m ² | 0.69 | 0.96 |

| Descriptions | Unit | Characteristics |
|----------------------------------|------|-----------------|
| Internal frictional torque (Tin) | N·m | 76 |
| Product weight | kg | 650 |
| Oil level | ℓ | 38 |
| Paint color | | Silver |

Accuracy

| Index accuracy (sec.) | | |
|-----------------------|---------|------|
| Indexing accuracy | 1 dwell | ±30 |
| | 2 dwell | ±60 |
| | 3 dwell | ±90 |
| | 4 dwell | ±120 |
| Repeatability | | 15 |

| Oscillating accuracy (sec.) | |
|-----------------------------|-----|
| Indexing accuracy | ±60 |
| Repeatability | 15 |

* For the dwell accuracy, please contact CKD.

List of index angles

Index series **RGIS 250** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Index number (n) | | | | | | | | | |
| 1 dwell | 2 | | | | | | ○ | ○ | ○ |
| | 3 | | | | ○ | ○ | ○ | ○ | ○ |
| | 4 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 10 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 15 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 dwell | 16 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 18 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 20 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 24 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 3 dwell | 24 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 30 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 36 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 48 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 32 | | | | ○ | ○ | ○ | ○ | ○ |
| | 36 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| 4 dwell | 40 | | | ○ | ○ | ○ | ○ | ○ | ○ |
| | 48 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Oscillator Series **RGOS 250** Cam curve/MS

| Total index angle (θt) | 90 | 120 | 180 | 240 | 300 | 360 |
|------------------------|----|-----|-----|-----|-----|-----|
| Oscillating angle (ψ) | | | | | | |
| 120 | | | | | ○ | |
| 90 | | | | | ○ | ○ |
| 60 | | | ○ | ○ | ○ | ○ |
| 45 | | | ○ | ○ | ○ | ○ |
| 30 | | | ○ | ○ | ○ | ○ |

Reducer series **RGCS 250**

| Total index angle (θt) | 360 |
|------------------------|-----|
| Reduction ratio (id) | |
| 1/3 | ○ |
| 1/4 | ○ |
| 1/5 | ○ |
| 1/6 | ○ |
| 1/8 | ○ |
| 1/9 | ○ |
| 1/10 | ○ |
| 1/12 | ○ |

Product specifications

Compact
Standard

Table

Roller gear cam drive
Wide angle
Compact multi-index

Flat

Basic

Parallel cam drive

Pick and Place drive
Linear
Circular

Option

Difference between shafts:

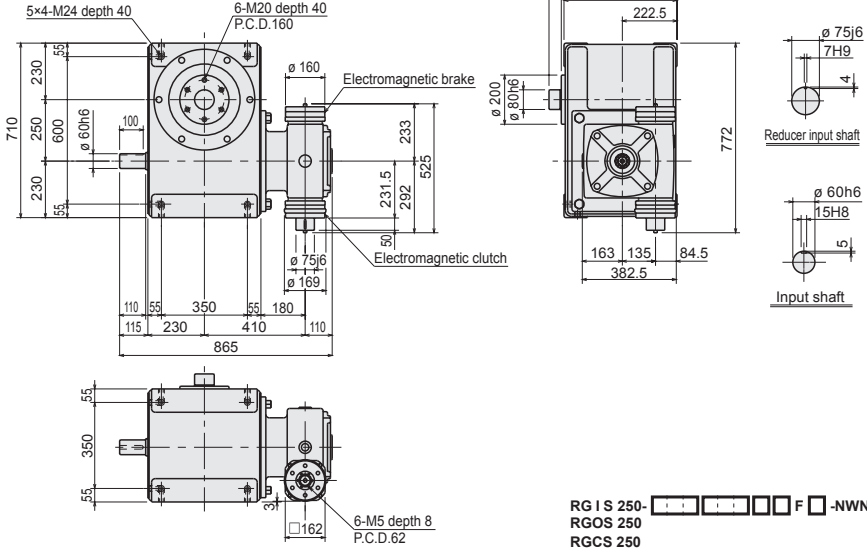
250 mm

Flange shaft

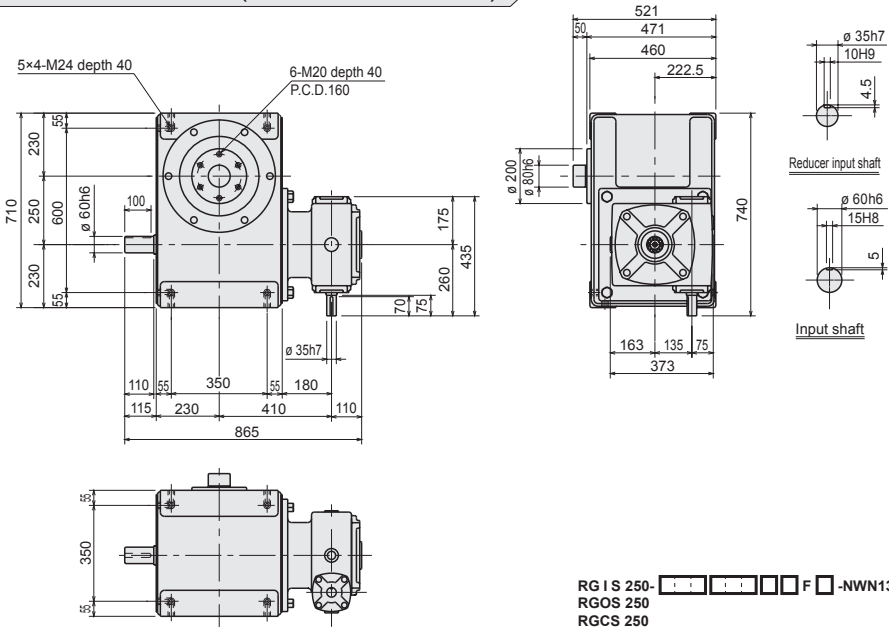
| | |
|------------|-------------------|
| Index | RG I S 250 |
| Oscillator | RGOS 250 |
| Reducer | RGCS 250 |

● Dimensions with options

With worm reducer (with HO135-C/B)



With worm reducer (without HO135-C/B)



Product specifications

- Compact
- Standard
- Table
- Wide angle
- Compact multi-index
- Roller gear cam drive
- Flat
- Basic
- Parallel cam drive
- Circular
- Linear
- Option

