



for a greener tomorrow



General-Purpose AC Servo MELSERVO-J4 Series Low-profile Direct Drive Motor TM-RG2M Series/TM-RU2M Series

October 2017

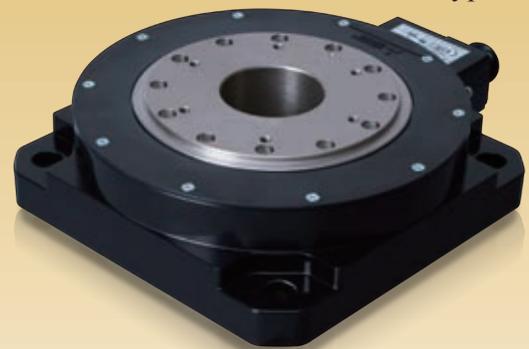
NEW

Releasing Outer Diameter of $\phi 130$ mm

New Product Release
SV1703-1E-A

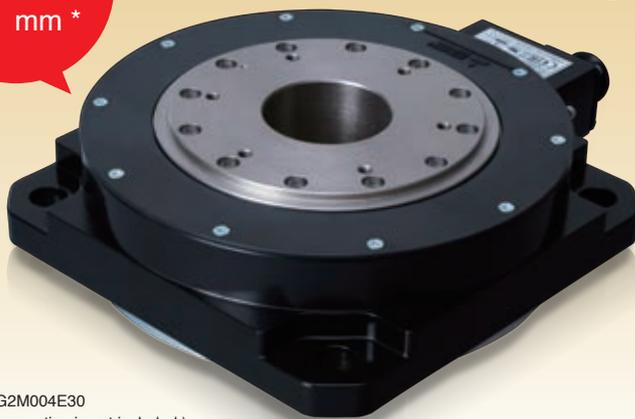
New Low-profile Direct Drive Motors for Further Compact and Light Machines

TM-RU2M Series
Table Type



TM-RG2M Series
Flange Type

Thickness:
51 mm*



* For TM-RG2M004E30
(A pilot for mounting is not included.)

■ TM-RG2M Series (Flange Type)

Rated torque: 2.2 N·m, 4.5 N·m, 9 N·m in 200 V class
Motor outer diameter: $\phi 130$ mm, $\phi 180$ mm, $\phi 230$ mm
TM-RG2M series is equipped with a pilot for mounting.

■ TM-RU2M Series (Table Type)

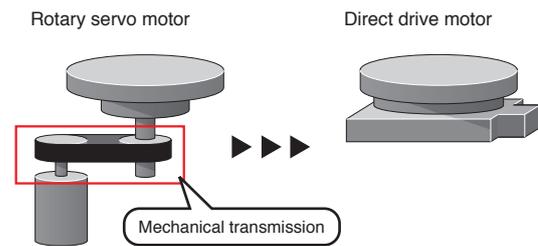
Rated torque: 2.2 N·m, 4.5 N·m, 9 N·m in 200 V class
Motor outer diameter: $\phi 130$ mm, $\phi 180$ mm, $\phi 230$ mm
TM-RU2M series is equipped with positioning pin holes for mounting.

New Low-profile Direct Drive Motors for Further Compact and Light Machines

What is a Direct Drive Motor?

A direct drive motor is a type of motor which is coupled directly to a load, whereas a rotary servo motor is coupled to a load with a mechanical transmission such as a gear, belt, etc. A direct drive system without mechanical transmission brings the following advantages to a machine.

- Machine installation space is reduced.
- Maintenance becomes easy because the replacement of mechanical transmission elements is unnecessary.
- High-accuracy positioning is achieved because the driving section is coupled directly to a load.
- Energy-conservation of a machine is improved because motions of the direct drive motor are transmitted efficiently.



New Low-profile Direct Drive Motor TM-RG2M Series and TM-RU2M Series

Low-profile direct drive motor TM-RG2M series and TM-RU2M series are launched in addition to the prior TM-RFM series.

TM-RG2M004E30 (motor outer diameter: $\phi 180$ mm) has a thickness of 51 mm* decreased by 18% and a mass of 5.5 kg decreased by 50% compared with TM-RFM006E20.

In addition, the new series has a rated speed of 300 r/min. Its increased speed improves productivity. When high torque is needed or the load is heavy, TM-RFM series is recommended.

Comparison with prior TM-RFM series

| | TM-RFM 006E20 | NEW TM-RG2M 004E30 |
|---------------------------|------------------|------------------------------|
| Motor outer diameter [mm] | $\phi 180$ | $\phi 180$ |
| Rated torque [N·m] | 6 | 4.5 |
| Rated speed [r/min] | 200 | 300 |
| Thickness * [mm] | 62 | 51 |
| Mass [kg] | 11 | 5.5 |

* A pilot for mounting is not included.

Flange Type (with Pilot) and Table Type (with Positioning Pin Holes)

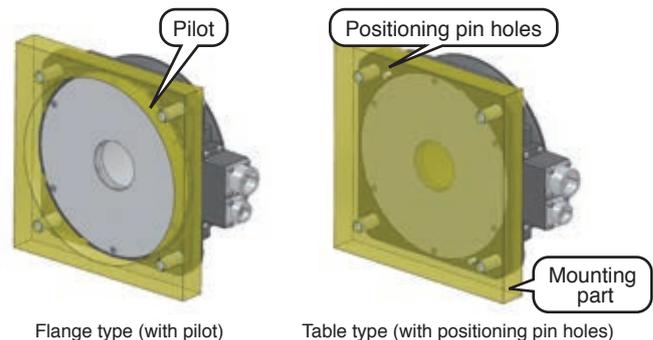
Two mounting types are selectable according to the mounting method to a machine.

TM-RG2M series: flange type (with pilot)

Position with the pilot and fix with bolts.

TM-RU2M series: table type (with positioning pin holes)

Position with the positioning pin holes and fix with bolts.



Refer to "Mounting of TM-RG2M/TM-RU2M Series" on p. 6 in this brochure for details.

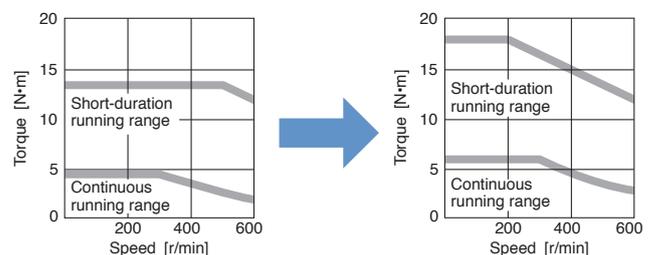
Increased Rated and Maximum Torques

The rated and maximum torques of TM-RG2M004E30/TM-RU2M004E30 are increased when a larger-capacity servo amplifier is combined. For example, when MR-J4-40B(-RJ) servo amplifier is used instead of MR-J4-20B(-RJ), the rated and maximum torques are increased as follows:

Rated torque: from 4.5 N·m to 6 N·m.

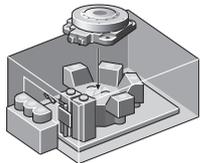
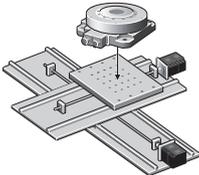
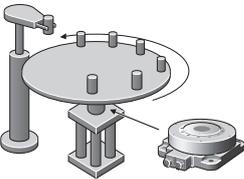
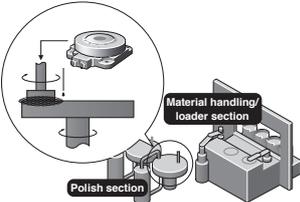
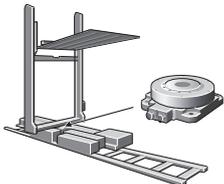
Maximum torque: from 13.5 N·m to 18 N·m.

* Refer to "TM-RG2M/TM-RU2M Series Torque Characteristics" on p. 6 in this brochure for torque characteristics.



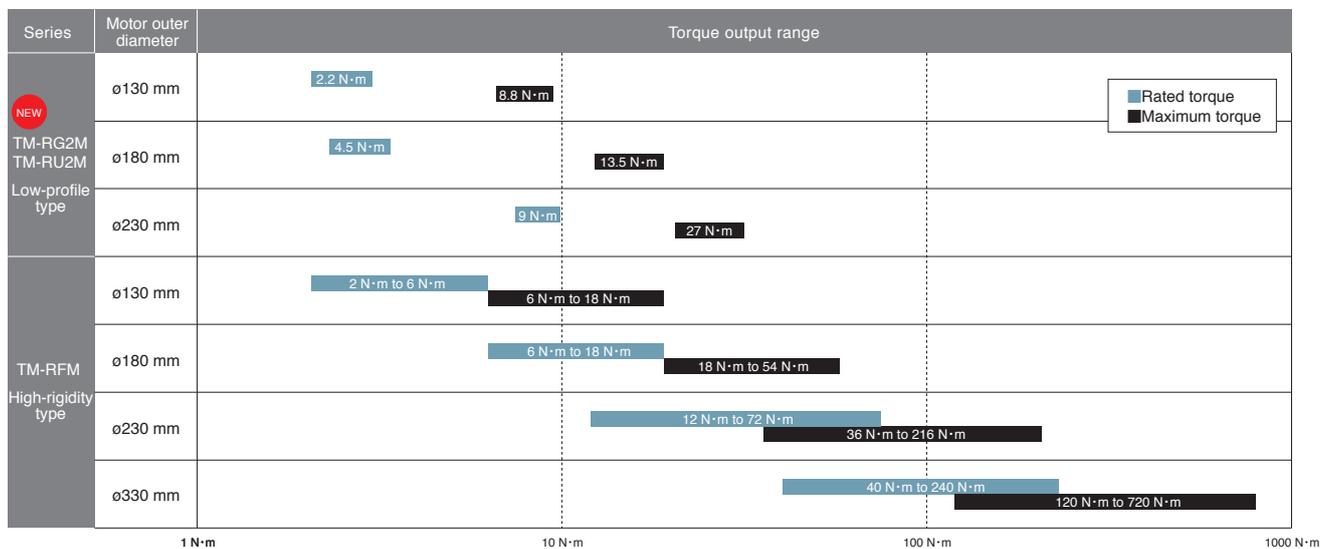
Application Examples

Suitable for low-speed and high-torque applications.

| | | |
|---|---|---|
| <p>Coating and vapor deposition systems</p>  | <p>Spin-type cleaning systems for LCD/semiconductor</p>  | <p>LCD/semiconductor testing systems (XYθ tables)</p>  |
| <p>Index table for machine tools</p>  | <p>Rotary axis for polishing systems</p>  | <p>Rotary axis for material handling robots</p>  |

Product Lines

18 models with 4 different diameters are available.



Compliance with Global Standards and Regulations

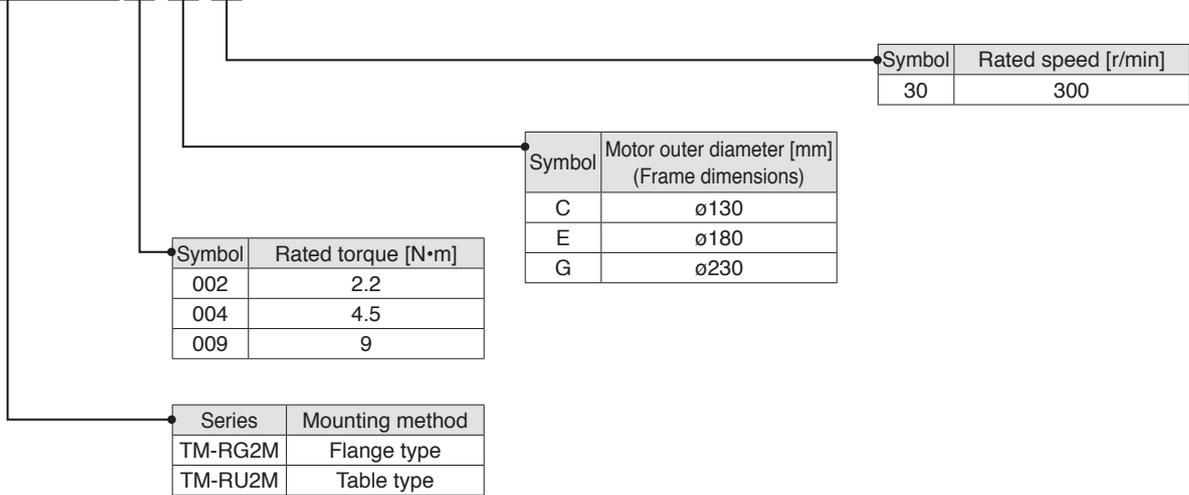


Direct drive motor

| | | |
|--|-----------------------|---|
| European EC directive | Low voltage directive | EN 60034-1 |
| | EMC directive | EN 61800-3 Category C3 |
| | Machine directive | - |
| | RoHS directive | EN 50581 |
| UL standard | | UL 1004-1 / UL 1004-6 |
| CSA standard | | CSA C22.2 No.100 |
| Measures for Administration of the Pollution Control of Electronic Information Products (Chinese RoHS) | | Compliant (Names and the content of hazardous substances are described in Instruction Manuals.) |
| China Compulsory Certification (CCC) | | N/A |
| Korea Radio Wave Law (KC) | | N/A |
| Certification system of the Eurasian Economic Union (EAC) | | Compliant |

Model Designation

TM - RG2M



Combinations of Direct Drive Motor and Servo Amplifier

| Direct drive motor | Servo amplifier ^(Note 3) | | |
|--------------------------------|---|--|--|
| | MR-J4 | MR-J4W2 ^(Note 1) | MR-J4W3 ^(Note 1) |
| TM-RG2M002C30 TM-RU2M002C30 | MR-J4-20GF(-RJ) ^(Note 4) MR-J4-20B(-RJ) MR-J4-20B1(-RJ) MR-J4-20A(-RJ) MR-J4-20A1(-RJ) | MR-J4W2-22B MR-J4W2-44B | MR-J4W3-222B MR-J4W3-444B |
| TM-RG2M004E30 TM-RU2M004E30 | MR-J4-20GF(-RJ) ^(Note 4) MR-J4-40GF(-RJ) ^(Note 2, 4) MR-J4-20B(-RJ) MR-J4-20B1(-RJ) MR-J4-40B(-RJ) ^(Note 2) MR-J4-40B1(-RJ) ^(Note 2) MR-J4-20A(-RJ) MR-J4-20A1(-RJ) MR-J4-40A(-RJ) ^(Note 2) MR-J4-40A1(-RJ) ^(Note 2) | MR-J4W2-22B MR-J4W2-44B ^(Note 2) | MR-J4W3-222B MR-J4W3-444B ^(Note 2) |
| TM-RG2M009G30 TM-RU2M009G30 | MR-J4-40GF(-RJ) ^(Note 4) MR-J4-40B(-RJ) MR-J4-40B1(-RJ) MR-J4-40A(-RJ) MR-J4-40A1(-RJ) | MR-J4W2-44B | MR-J4W3-444B |

- Notes: 1. Any combination of the servo motors is available for MR-J4W2/MR-J4W3 servo amplifiers. Refer to "MELSERVO-J4 catalog (L(NA)03058)" for the combinations with rotary servo motors, linear servo motors, and direct drive motors.
 2. This combination increases the rated and maximum torque.
 3. Use MR-J4-B(-RJ)/MR-J4-A(-RJ)/MR-J4W2/MR-J4W3 servo amplifiers with software version C8 or later.
 4. The combination with MR-J4-_GF(-RJ) will be available in the future.

TM-RG2M/TM-RU2M Series Specifications

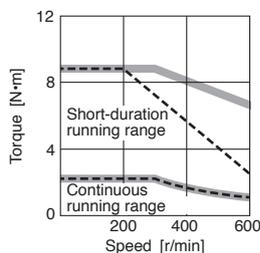
| Direct drive motor model | | TM-RG2M- TM-RU2M- | 002C30 | 004E30 | 009G30 |
|---|------------------------------------|---|--|--------------------------------------|--------|
| Compatible servo amplifier model | | MR-J4- MR-J4W_- | Refer to "Combinations of Direct Drive Motor and Servo Amplifier" on p. 4 in this brochure. | | |
| Motor outer diameter (frame dimensions) | | [mm] | ø130 | ø180 | ø230 |
| Power supply capacity ^{*1} (Note 4) | | [kVA] | 0.25 | 0.5 <0.7> | 0.9 |
| Continuous running duty | Rated output (Note 4) | [W] | 69 | 141 <188> | 283 |
| | Rated torque (Note 3, 4) | [N•m] | 2.2 | 4.5 <6> | 9 |
| Maximum torque (Note 4) | | [N•m] | 8.8 | 13.5 <18> | 27 |
| Rated speed | | [r/min] | 300 | | |
| Maximum speed | | [r/min] | 600 | | |
| Permissible instantaneous speed | | [r/min] | 690 | | |
| Power rate at continuous rated torque (Note 4) | | [kW/s] | 6.1 | 3.4 <6.0> | 5.5 |
| Rated current (Note 4) | | [A] | 1.2 | 1.3 <1.7> | 2.2 |
| Maximum current (Note 4) | | [A] | 4.9 | 4.0 <5.3> | 6.7 |
| Regenerative braking frequency ^{*2} (Note 4) | MR-J4- | [times/min] | 1317 | 166 <167> | 68 |
| | MR-J4W_- | [times/min] | 1317 | 166 <167> | 68 |
| Moment of inertia J | | [× 10 ⁻⁴ kg•m ²] | 7.88 | 60.2 | 147 |
| Recommended load to motor inertia ratio (Note 1) | | | 50 times or less | 20 times or less | |
| Absolute accuracy (Note 6) | | [s] | ±15 | ±12.5 | |
| Speed/position detector | Absolute/incremental ^{*3} | | 21-bit encoder 2097152 pulses/rev | 22-bit encoder 4194304 pulses/rev | |
| Thermistor | | | Built-in | | |
| Insulation class | | | 155 (F) | | |
| Structure | | | Totally enclosed, natural cooling (IP rating: IP40) (Note 2) | | |
| Environment ^{*4 *8} | Ambient temperature | | Operation: 0 °C to 40 °C (non-freezing), storage: -15 °C to 70 °C (non-freezing) | | |
| | Ambient humidity | | Operation: 10 %RH to 80 %RH (non-condensing), storage: 10 %RH to 90 %RH (non-condensing) | | |
| | Ambience | | Indoors (no direct sunlight); no corrosive gas, inflammable gas, oil mist, dust or splash of oil or water | | |
| | Altitude | | 2000 m or less above sea level (Note 5) | | |
| | Vibration resistance ^{*5} | | X: 49 m/s ² Y: 49 m/s ² | | |
| Vibration rank | | | V10 ^{*7} | | |
| Compliance with global standards | | | Refer to "Compliance with Global Standards and Regulations" on p. 3 in this brochure. | | |
| Rotor permissible load ^{*6} | Moment load | [N•m] | 15 | 49 | 65 |
| | Axial load | [N] | 770 | 2300 | 3800 |
| Mass | | [kg] | 2.7 | 5.5 | 8.3 |

- Notes: 1. Contact your local sales office if the load to motor inertia ratio exceeds the value in the table.
2. Connectors and a gap along the rotor (output shaft) are excluded.
3. When unbalanced torque is generated, such as in a vertical lift machine, be sure to use the absolute position detection system, and keep the unbalanced torque under 70% of the servo motor rated torque.
4. The value in angle brackets is applicable when the rated and maximum torques are increased with a combination with a larger-capacity servo amplifier. Refer to "Combinations of Direct Drive Motor and Servo Amplifier" on p. 4 in this brochure for the combinations.
5. Refer to "TM-RFM TM-RG2M TM-RU2M Direct Drive Motor Instruction Manual" for the restrictions when using the direct drive motors at altitude exceeding 1000 m and up to 2000 m above sea level.
6. Absolute accuracy varies according to the mounting state of load and the surrounding environment.

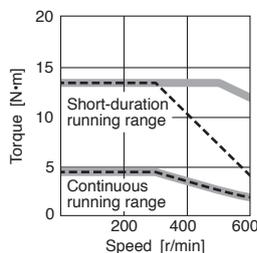
Refer to "Annotations for Direct Drive Motor Specifications" on p. 7 in this brochure for the asterisks 1 to 8.

TM-RG2M/TM-RU2M Series Torque Characteristics

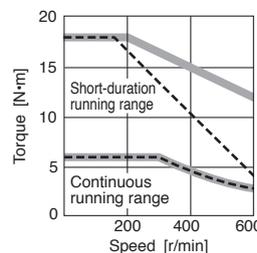
TM-RG2M002C30, TM-RU2M002C30 (Note 1, 2, 3)



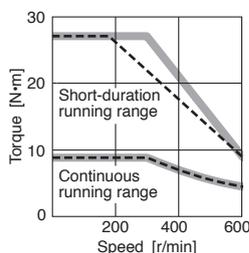
TM-RG2M004E30, TM-RU2M004E30 (Note 1, 2, 3)



TM-RG2M004E30, TM-RU2M004E30 (Note 1, 2, 3, 4) (when torque is increased)



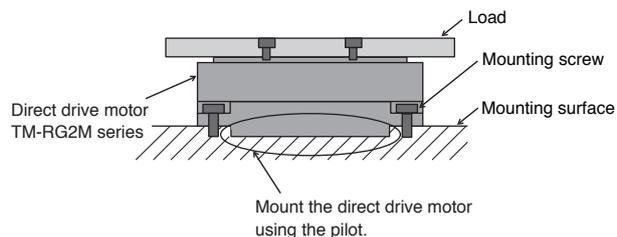
TM-RG2M009G30, TM-RU2M009G30 (Note 1, 2, 3)



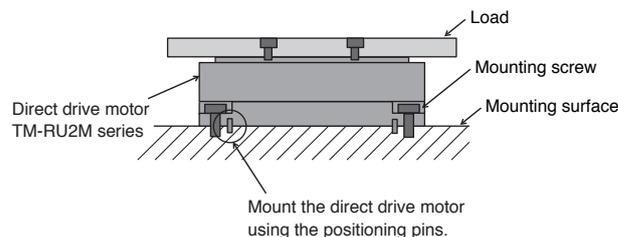
- Notes: 1. — : For 3-phase 200 V AC or 1-phase 230 V AC.
 2. - - - : For 1-phase 200 V AC or 1-phase 100 V AC.
 3. Torque drops when the power supply voltage is below the specified value.
 4. This value is applicable when the rated and maximum torques are increased with a combination with a larger-capacity servo amplifier. Refer to "Combinations of Direct Drive Motor and Servo Amplifier" on p. 4 in this brochure for the combinations.

Mounting of TM-RG2M/TM-RU2M Series

● Flange type (with pilot)



● Table type (with positioning pin holes)



Cautions when mounting the direct drive motor

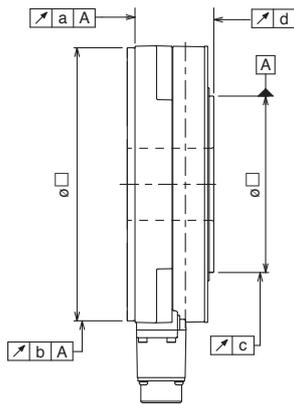
- Fix the direct drive motor securely on a high-rigid mounting surface because a machine resonance may occur if the rigidity of the mounting surface is low.
 - Fix the mounting screws of the direct drive motor and a rotating table securely to ensure enough rigidity.
 - To ensure heat dissipation and accuracy, mount the direct drive motor on a high-rigid mounting surface which has enough heat dissipation area without gaps between the bottom of the direct drive motor and the mounting surface.
 - The flange type has a higher mounting accuracy than the table type. When a high-mounting accuracy is required, select the flange type.
- Refer to "Direct Drive Motor Machine Accuracy" on p. 7 in this brochure for the machine accuracy of each direct drive motor, and refer to the dimensions on pp. 8 to 10 in this brochure for the dimensional tolerance.

Direct Drive Motor Machine Accuracy

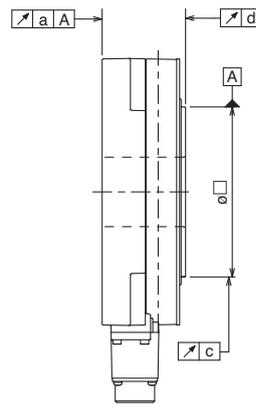
The machine accuracy related to the direct drive motor rotor (output shaft) and mounting is indicated below:

| Item | Measuring position | Accuracy [mm] |
|---|--------------------|---------------|
| Runout of flange surface about rotor (output shaft) | a | 0.05 |
| Runout of fitting outer diameter of flange surface | b | 0.07 |
| Runout of rotor (output shaft) | c | 0.04 |
| Runout of rotor (output shaft) end | d | 0.02 |

●TM-RG2M Series

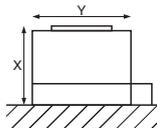


●TM-RU2M Series

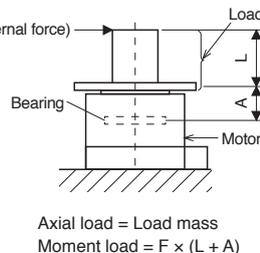
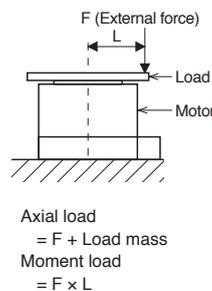
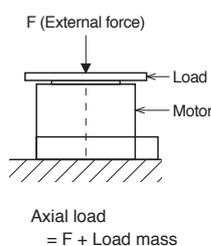


Annotations for Direct Drive Motor Specifications

- The power supply capacity varies depending on the power supply impedance.
- The regenerative braking frequency shows the permissible frequency when the direct drive motor, without a load and a regenerative option, decelerates from the rated speed to a stop. When a load is connected; however, the value will be the table value/(m + 1), where m = Moment of inertia of load/Moment of inertia of direct drive motor. When the operating speed exceeds the rated speed, the regenerative braking frequency is inversely proportional to the square of (operating speed/rated speed). Take measures to keep the regenerative power [W] during operation below the permissible regenerative power [W]. Use caution, especially when the operating speed changes frequently or when the regeneration is constant (as with vertical feeds). Select the most suitable regenerative option for your system with our capacity selection software. Refer to "Regenerative Option" in "MELSERVO-J4 catalog (L(NA)03058)" for the permissible regenerative power [W] when regenerative option is used.
- Be sure to connect the following options for absolute position detection system.
 - MR-J4-GF (compatible in the future): battery (MR-BAT6V1SET-A) and absolute position storage unit (MR-BTAS01)
 - MR-J4-B/MR-J4-A: battery (MR-BAT6V1SET) and absolute position storage unit (MR-BTAS01)
 - MR-J4W_ : battery case (MR-BT6VCASE), battery (MR-BAT6V1) × 5 pcs, and absolute position storage unit (MR-BTAS01)
 Refer to relevant Servo Amplifier Instruction Manual for details.
- In the environment where the direct drive motor is exposed to oil mist, oil and/or water, a standard specification direct drive motor may not be usable. Contact your local sales office for more details.
- The vibration direction is shown in the diagram below. The numerical value indicates the maximum value of the component. Fretting tends to occur on the bearing when the direct drive motor stops. Thus, maintain vibration level at approximately one-half of the allowable value.

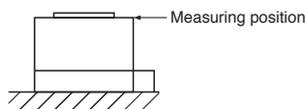


- The following is calculation examples of axial and moment loads to the rotor (output shaft) of the direct drive motor. The axial and moment loads must be maintained equal to or below the permissible value.



| Motor outer diameter [mm] (Frame dimensions) | Dimension A [mm] |
|---|---------------------|
| ø130 | 20.6 |
| ø180 | 20.7 |
| ø230 | 18.0 |

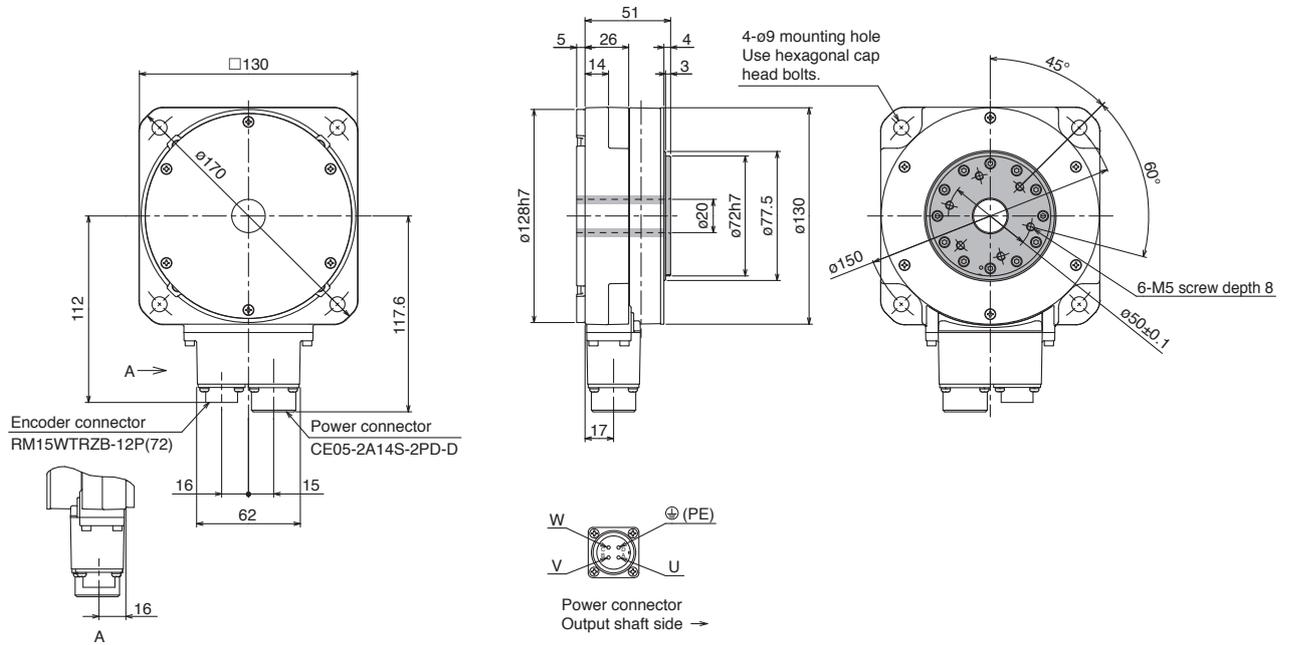
- V10 indicates that the amplitude of the direct drive motor itself is 10 μm or less. The following shows mounting posture and measuring position of the direct drive motor during the measurement:



- Do not place any object (such as a magnet) which generates a magnetic force near the direct drive motor. If it is unavoidable, take a measure such as mounting a shielding plate and so on to cut off the magnetic force.

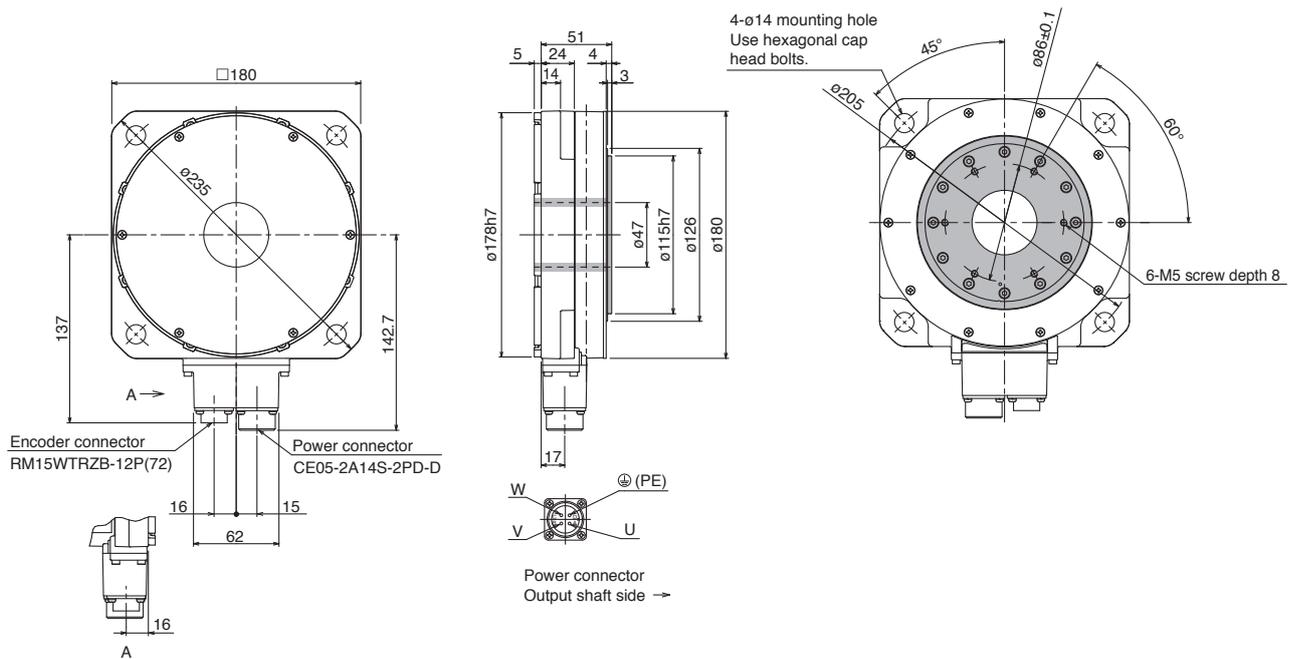
TM-RG2M Series Dimensions (Note 1, 2)

● **TM-RG2M002C30**



[Unit: mm]

● **TM-RG2M004E30**

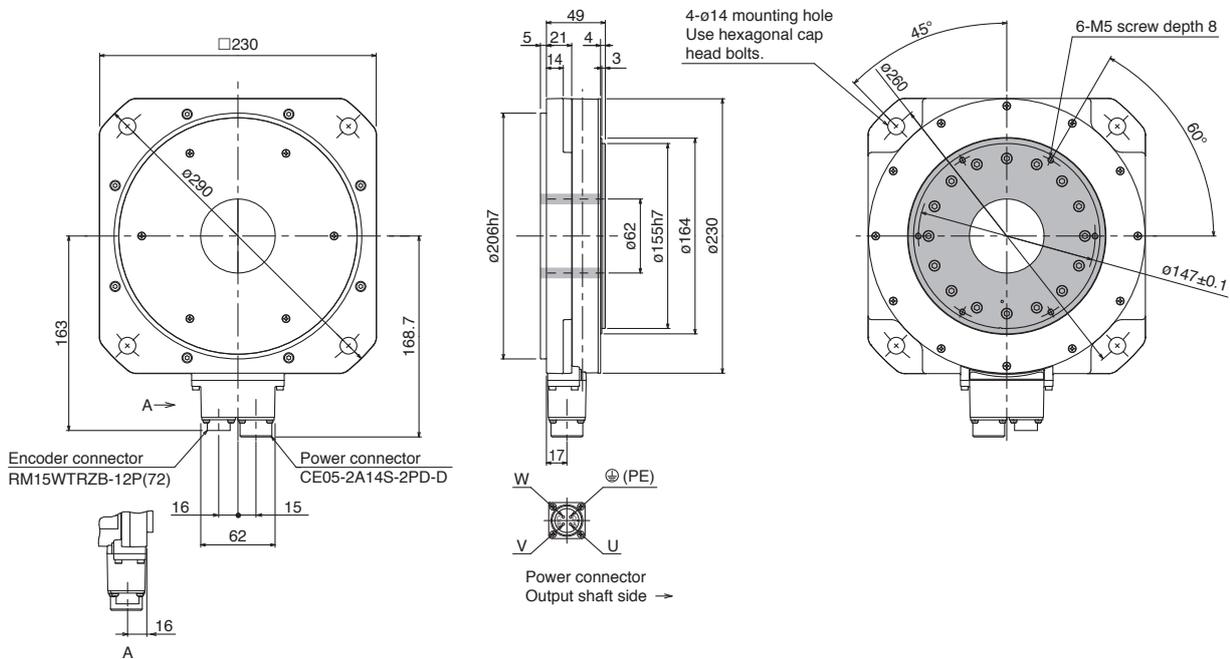


[Unit: mm]

Notes: 1. For dimensions without tolerance, general tolerance applies.
2. ■ indicates rotor.

TM-RG2M Series Dimensions (Note 1, 2)

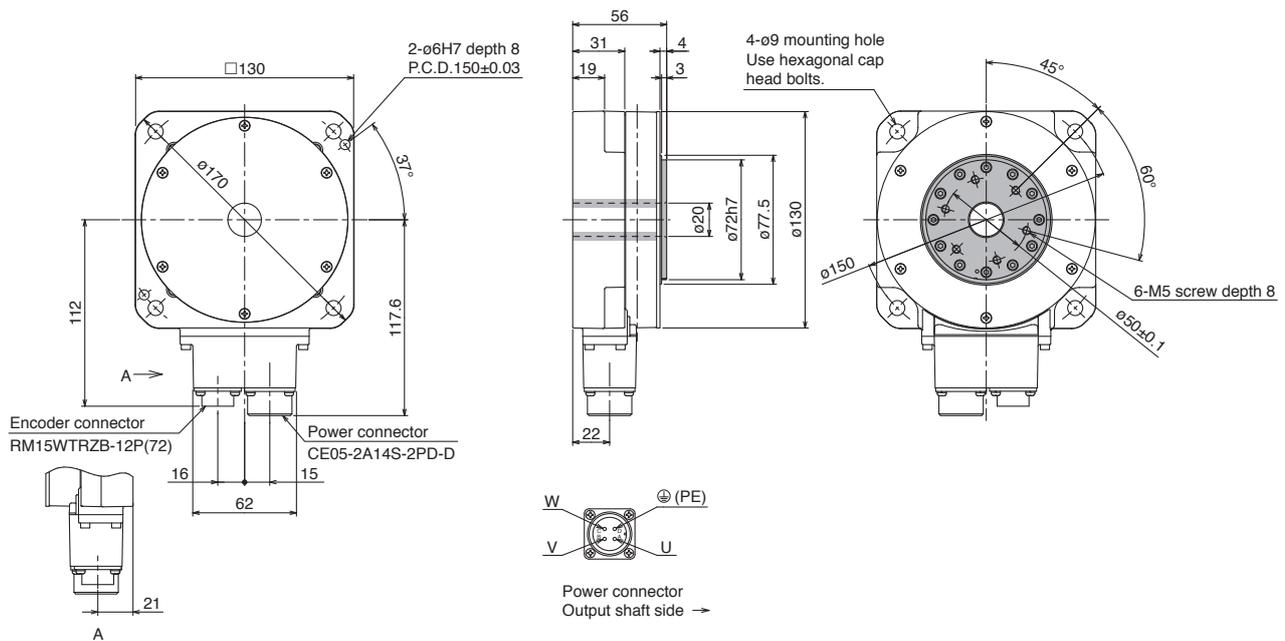
● TM-RG2M009G30



[Unit: mm]

TM-RU2M Series Dimensions (Note 1, 2)

● TM-RU2M002C30

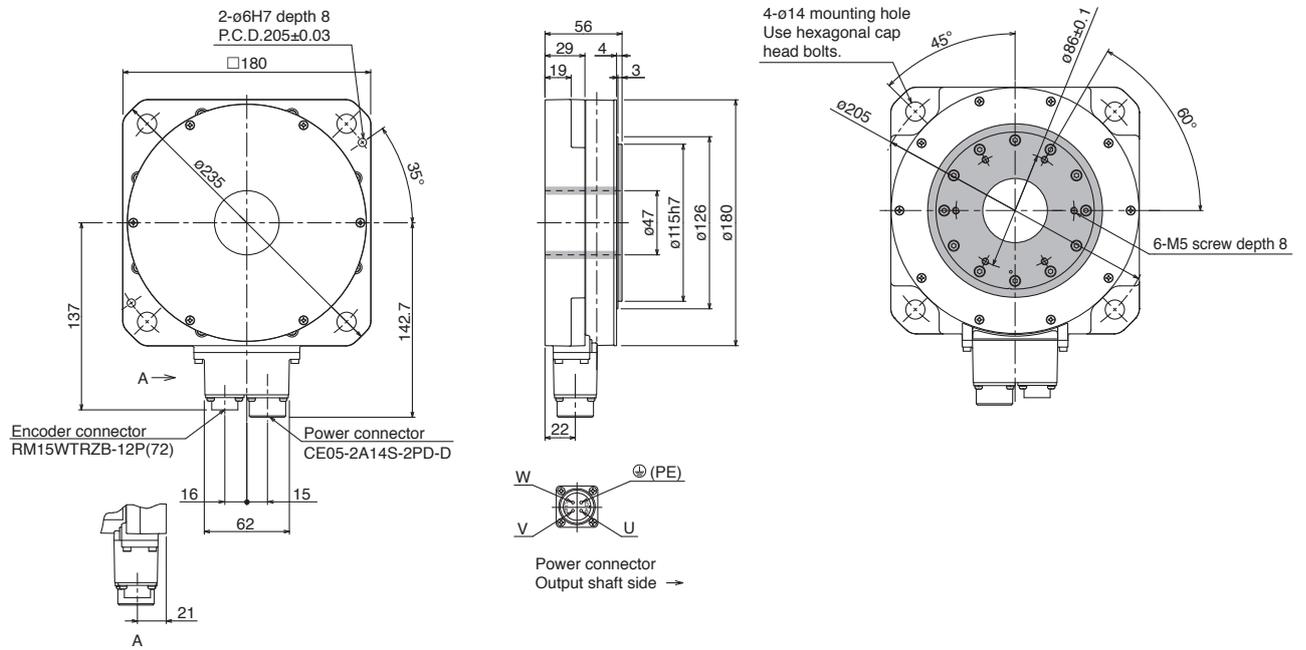


[Unit: mm]

Notes: 1. For dimensions without tolerance, general tolerance applies.
2. ■ indicates rotor.

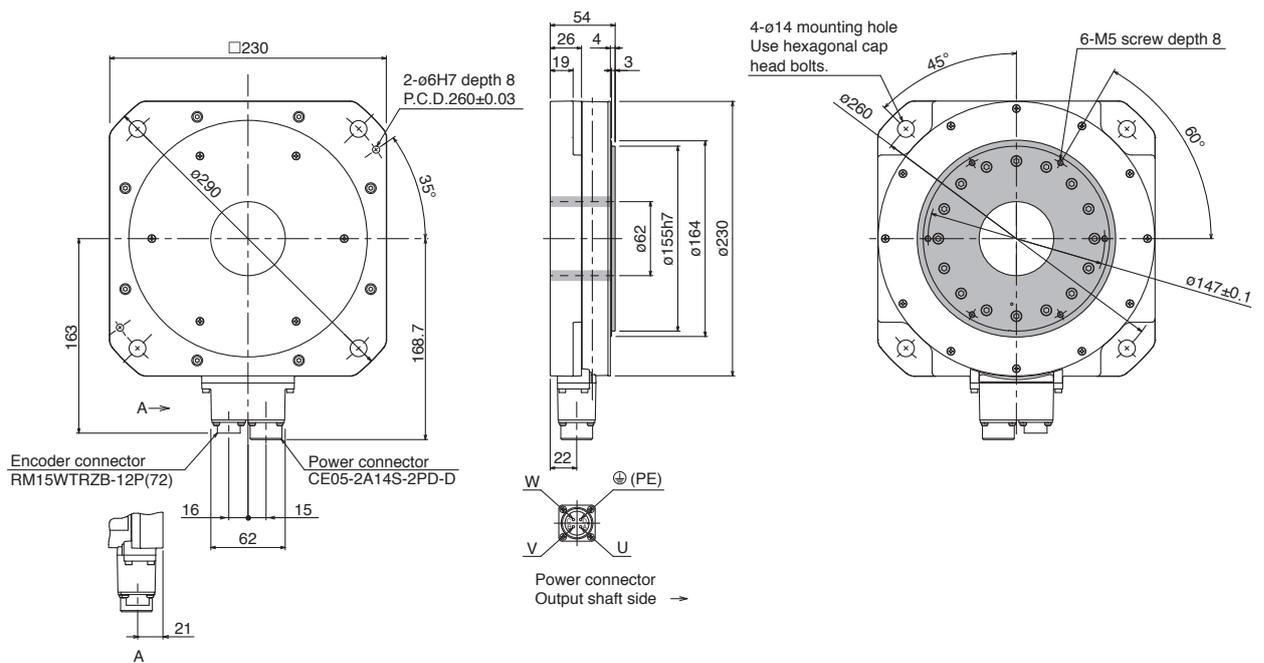
TM-RU2M Series Dimensions (Note 1, 2)

● TM-RU2M004E30



[Unit: mm]

● TM-RU2M009G30



[Unit: mm]

Notes: 1. For dimensions without tolerance, general tolerance applies.
2. ■ indicates rotor.

Selection Example in HIV Wires

The following are examples of wire sizes when 600 V grade heat-resistant polyvinyl chloride insulated wires (HIV wires) with a length of 30 m are used.

| Direct drive motor model | Wire size [mm ²] |
|--|--------------------------------------|
| | For power and grounding (U, V, W, Ⓧ) |
| TM-RG2M002C30, TM-RG2M004E30, TM-RG2M009G30 TM-RU2M002C30, TM-RU2M004E30, TM-RU2M009G30 | 0.75 (AWG 18) |

Optional Connector Set

Refer to "MELSERVO-J4 catalog (L(NA)03058)" for the optional connector set to be used to connect.

Related Material

Related materials are listed below:

Catalog

| Catalog name | Document No. |
|---|--------------|
| Servo Amplifiers & Motors MELSERVO-J4 Catalog | L(NA)03058 |

Manual (Instruction Manual)

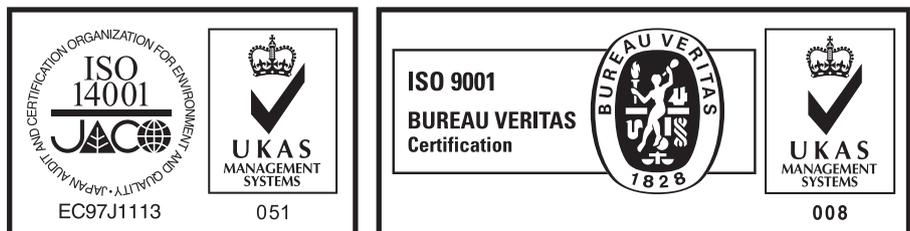
| Manual name | Manual No. |
|---|--------------|
| TM-RFM TM-RG2M TM-RU2M Direct Drive Motor Instruction Manual | SH-030112ENG |
| MR-J4-_B_(-RJ) Servo Amplifier Instruction Manual | SH-030106ENG |
| MR-J4W2-_B MR-J4W3-_B MR-J4W2-0303B6 Servo Amplifier Instruction Manual | SH-030105ENG |
| MR-J4-_A_(-RJ) MR-J4-03A6(-RJ) Servo Amplifier Instruction Manual | SH-030107ENG |
| MELSERVO-J4 Servo Amplifier Instruction Manual (Trouble Shooting) | SH-030109ENG |

General-Purpose AC Servo MELSERVO-J4 Series

Low-profile Direct Drive Motor TM-RG2M Series/TM-RU2M Series

| Country/Region | Sales office | Tel |
|----------------|--|-----------------------------|
| USA | Mitsubishi Electric Automation, Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. | Tel : +1-847-478-2100 |
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Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO 14001 (standards for environmental management systems) and ISO 9001 (standards for quality assurance management systems).



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