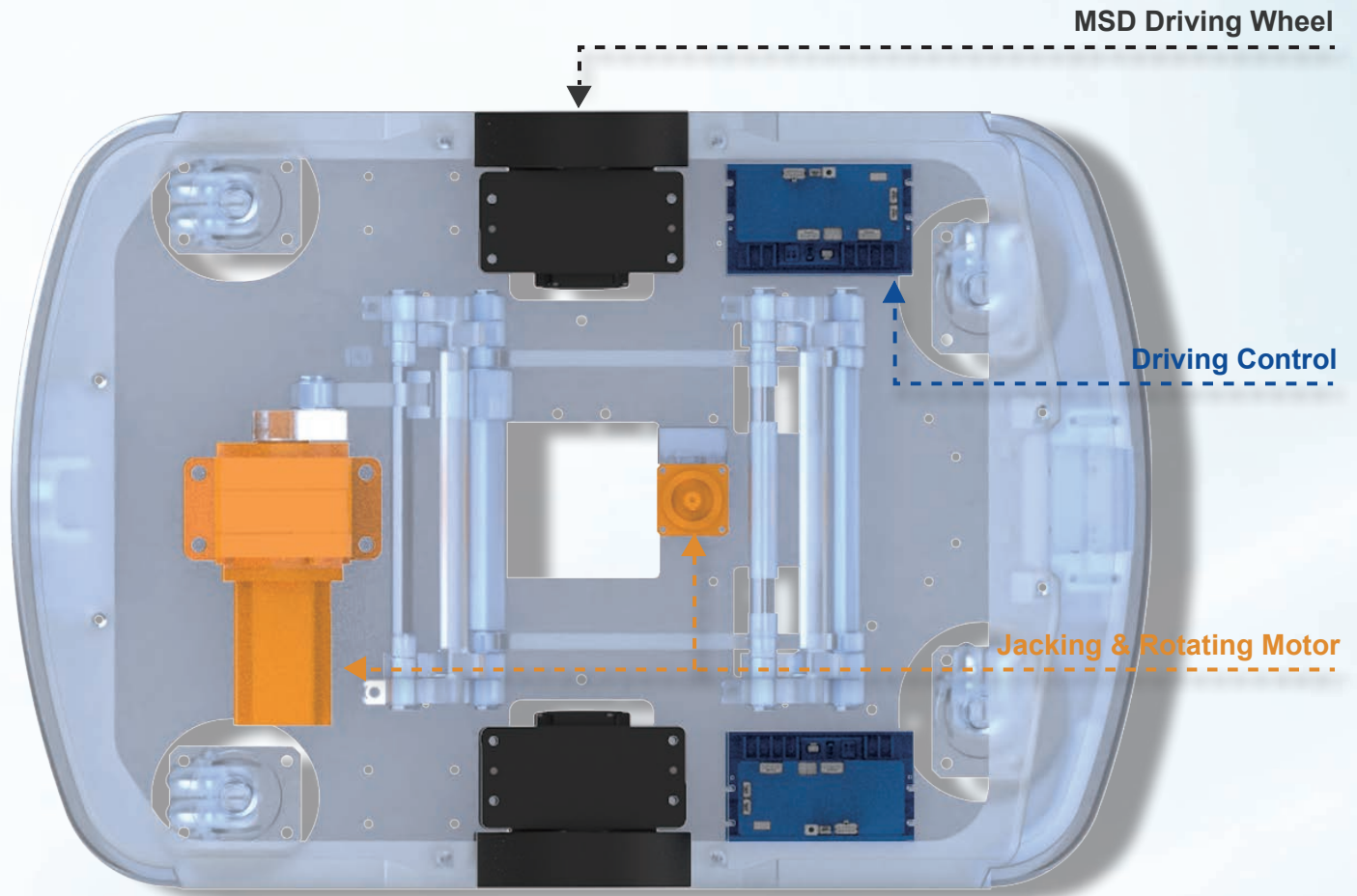


# AGV Motion Control Solution



Nowadays, factory/warehouse/logistics are developing quickly in unmanned & roboticized direction,

Moons' actively cooperating to provide whole motion control solutions for AGV/ACR/AMR...etc.



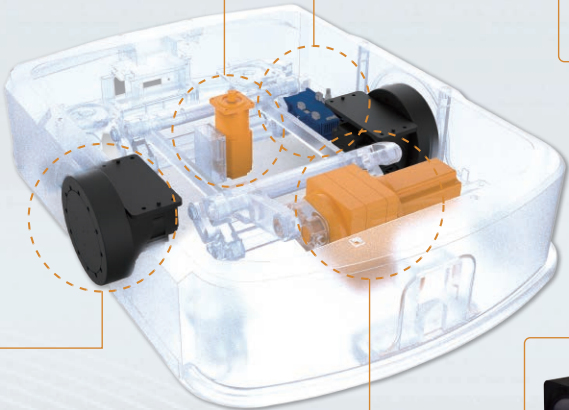
Short Motor



Rotation Module



Driver



Driving Wheel



Jacking Module



Short Motor



Integrated Motor



Wheel Edge Planetary gearbox

## Whole motion control solution for Latent jacking(floor) AGV:

### ■ MSD Driving Wheel

**MSD160 – 10 – 075 – 20 G SL – N \*\***  
 ①                      ②                      ③                      ④ ⑤ ⑥                      ⑦ ⑧

- ① MSD O.D.: 125/150/160/180/200/230/250 (Unit: mm)
- ② Gear Ratio: 10/16/20/32
- ③ Power : 075—750W, 100—1000W etc.
- ④ Rated speed: 20—2000rpm, 30—3000rpm etc.
- ⑤ Voltage: G—DC48V  
J—DC24V
- ⑥ Encoder: SL—Single Encoder EL—Duel Encoders
- ⑦ Brake: N—Without B—With
- ⑧ \*\*: Customizing Serial Number

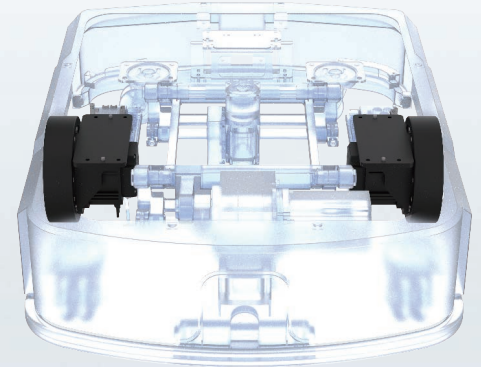
### ■ MBDV DRIVER

### ■ JACKING & ROTATING MOTOR

# MSD150-10-040-20GSL-N

## MSD Specifications

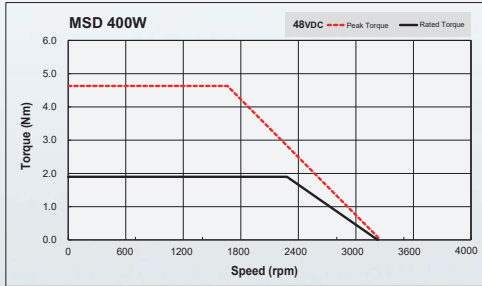
|                                |                |                              |
|--------------------------------|----------------|------------------------------|
| O.D. of wheel \ width of wheel | mm             | 150 \ 36                     |
| Max radial load of wheel       | kg             | 455                          |
| Speed at max load              | m/s            | 1.6                          |
| Peak speed at no load          | m/s            | 2.4                          |
| Gear box ratio                 | gear ratio     | 10                           |
| Basic DC Bus Voltage           | V(DC)          | 48                           |
| Rated Output Power             | Watts          | 400                          |
| Rated Speed                    | rpm            | 2000                         |
| Rated Torque                   | Nm             | 1.91                         |
| Peak Torque                    | Nm             | 4.78                         |
| Rated Current                  | A (rms)        | 12                           |
| Brake                          | N/A (Optional) |                              |
| Wheel Characteristics          | material       | Polyrethane or Customization |



## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

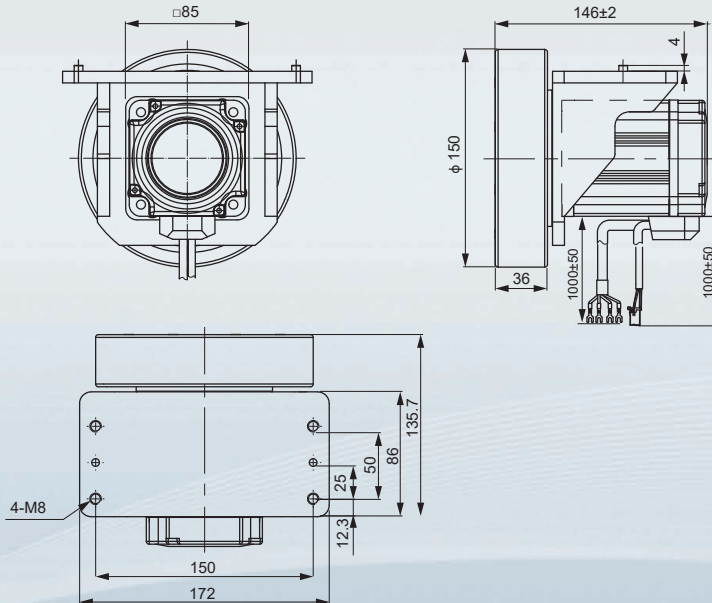
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 90N.m.  |
| Max acceleration torque | 162N.m. |
| Emergency stop torque   | 270N.m. |
| Efficiency              | 97%     |

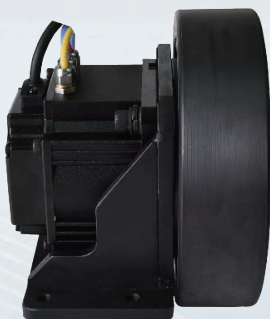
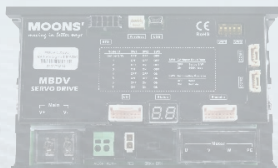
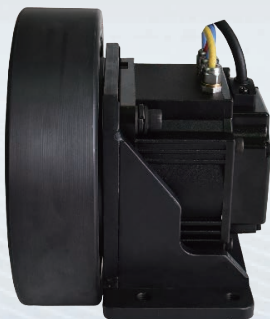
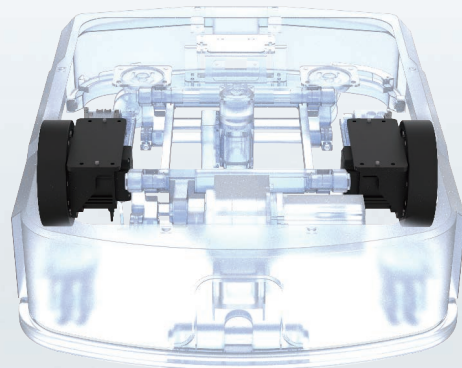
## ■ Dimensions (Unit: mm)



# MSD150-10-040-20GSL-B

## MSD Specifications

|                                |            |                              |
|--------------------------------|------------|------------------------------|
| O.D. of wheel \ width of wheel | mm         | 150 \ 36                     |
| Max radial load of wheel       | kg         | 455                          |
| Speed at max load              | m/s        | 1.6                          |
| Peak speed at no load          | m/s        | 2.4                          |
| Gear box ratio                 | gear ratio | 10                           |
| Basic DC Bus Voltage           | V(DC)      | 48                           |
| Rated Output Power             | Watts      | 400                          |
| Rated Speed                    | rpm        | 2000                         |
| Rated Torque                   | Nm         | 1.91                         |
| Peak Torque                    | Nm         | 4.78                         |
| Rated Current                  | A (rms)    | 12                           |
| Brake                          | with brake |                              |
| Wheel Characteristics          | material   | Polyrethane or Customization |



Short Length on axis

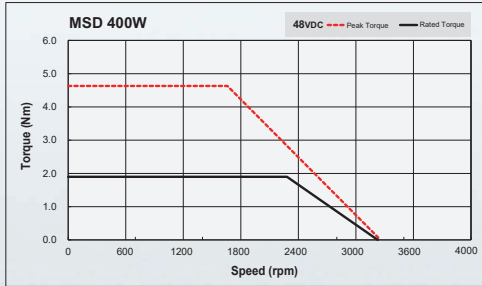
Low Noise

Huge shipment & Widely used

## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

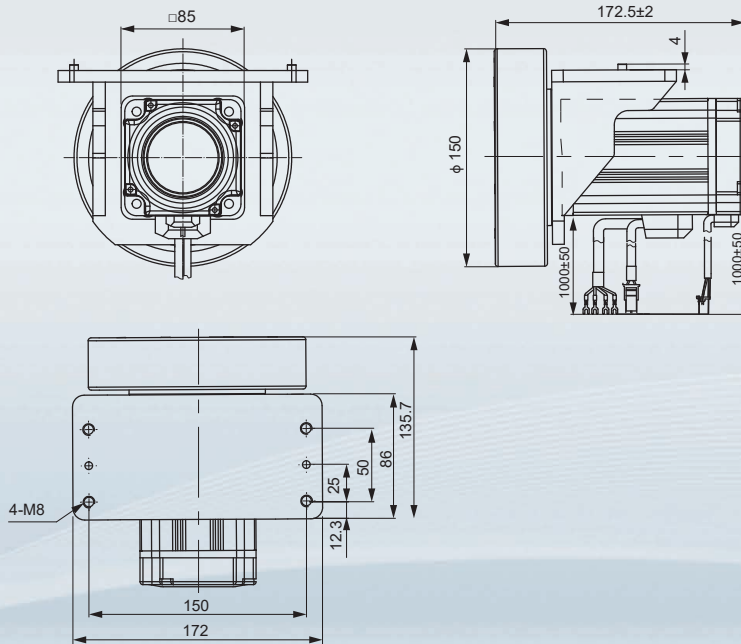
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 90N.m.  |
| Max acceleration torque | 162N.m. |
| Emergency stop torque   | 270N.m. |
| Efficiency              | 97%     |

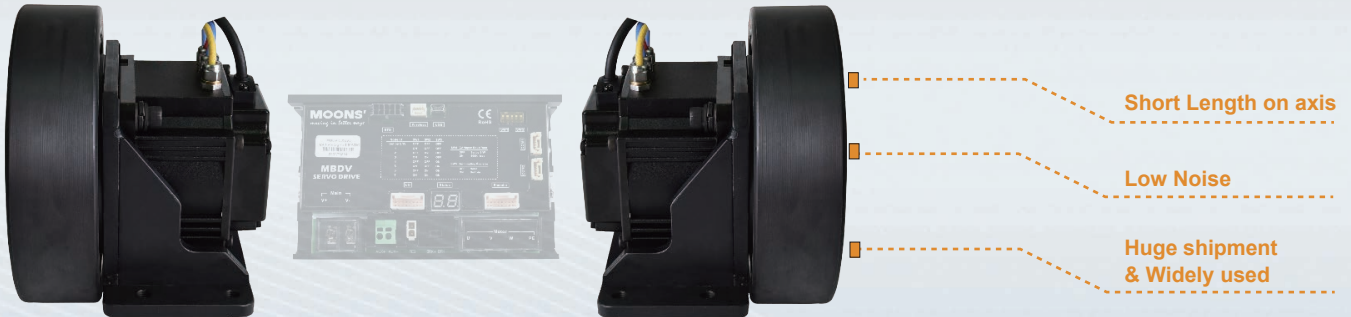
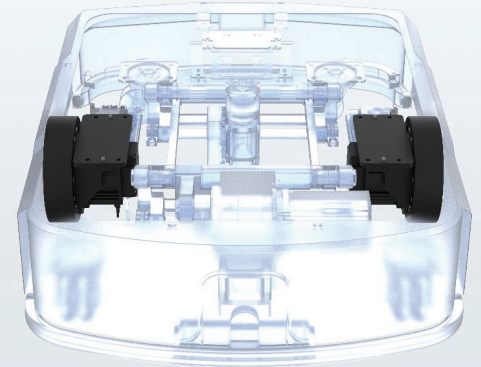
## ■ Dimensions (Unit: mm)



# MSD160-10-075-20GSL-N

## MSD Specifications

|                                |                |                              |
|--------------------------------|----------------|------------------------------|
| O.D. of wheel \ width of wheel | mm             | 160 \ 36                     |
| Max radial load of wheel       | kg             | 455                          |
| Speed at max load              | m/s            | 1.7                          |
| Peak speed at no load          | m/s            | 2.1                          |
| Gear box ratio                 | gear ratio     | 10                           |
| Basic DC Bus Voltage           | V(DC)          | 48                           |
| Rated Output Power             | Watts          | 750                          |
| Rated Speed                    | rpm            | 2000                         |
| Rated Torque                   | Nm             | 3.6                          |
| Peak Torque                    | Nm             | 7.2                          |
| Rated Current                  | A (rms)        | 19.3                         |
| Brake                          | N/A (Optional) |                              |
| Wheel Characteristics          | material       | Polyrethane or Customization |

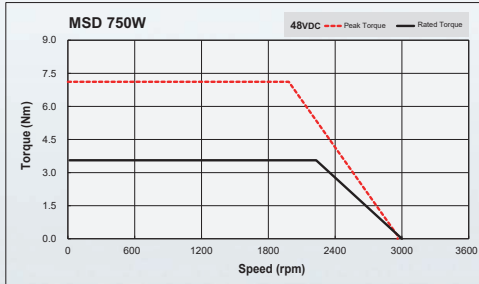


## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |



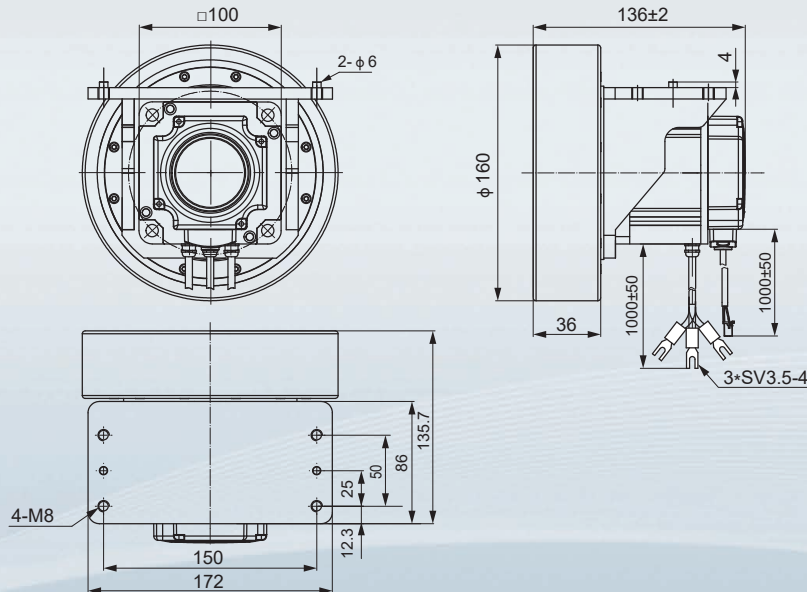
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 90N.m.  |
| Max acceleration torque | 162N.m. |
| Emergency stop torque   | 270N.m. |
| Efficiency              | 97%     |

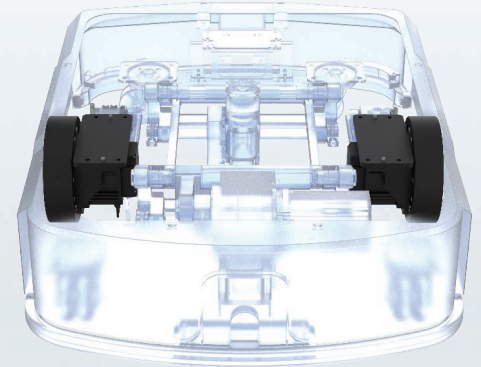
## ■ Dimensions (Unit: mm)



# MSD160-10-075-20GSL-B

## MSD Specifications

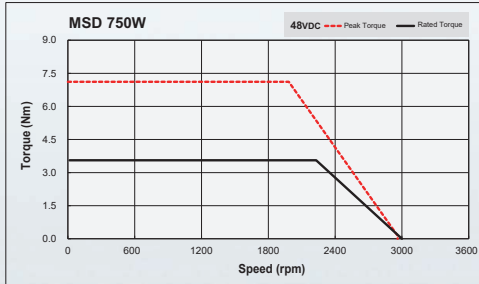
|                                |            |                              |
|--------------------------------|------------|------------------------------|
| O.D. of wheel \ width of wheel | mm         | 160 \ 36                     |
| Max radial load of wheel       | kg         | 455                          |
| Speed at max load              | m/s        | 1.7                          |
| Peak speed at no load          | m/s        | 2.1                          |
| Gear box ratio                 | gear ratio | 10                           |
| Basic DC Bus Voltage           | V(DC)      | 48                           |
| Rated Output Power             | Watts      | 750                          |
| Rated Speed                    | rpm        | 2000                         |
| Rated Torque                   | Nm         | 3.6                          |
| Peak Torque                    | Nm         | 7.2                          |
| Rated Current                  | A (rms)    | 19.3                         |
| Brake                          | with brake |                              |
| Wheel Characteristics          | material   | Polyrethane or Customization |



## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

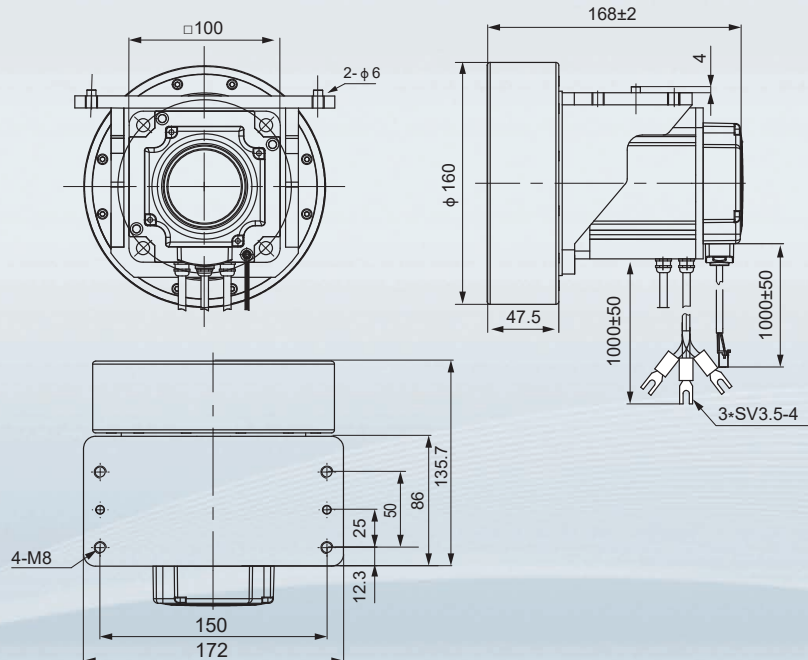
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 90N.m.  |
| Max acceleration torque | 162N.m. |
| Emergency stop torque   | 270N.m. |
| Efficiency              | 97%     |

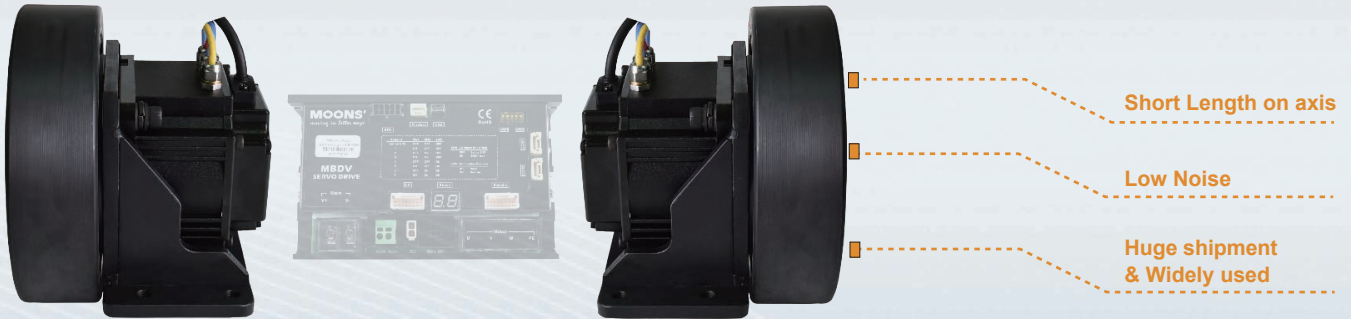
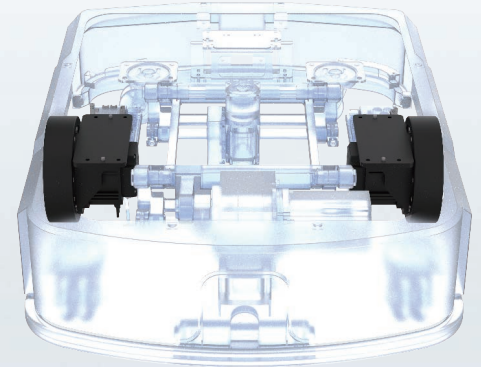
## ■ Dimensions (Unit: mm)



# MSD180-10-075-20GSL-N

## MSD Specifications

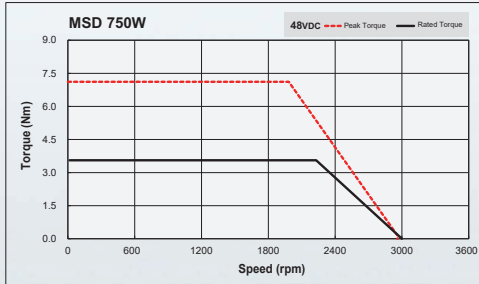
|                                |                |                              |
|--------------------------------|----------------|------------------------------|
| O.D. of wheel \ width of wheel | mm             | 180 \ 47.5                   |
| Max radial load of wheel       | kg             | 625                          |
| Speed at max load              | m/s            | 1.9                          |
| Peak speed at no load          | m/s            | 2.4                          |
| Gear box ratio                 | gear ratio     | 10                           |
| Basic DC Bus Voltage           | V(DC)          | 48                           |
| Rated Output Power             | Watts          | 750                          |
| Rated Speed                    | rpm            | 2000                         |
| Rated Torque                   | Nm             | 3.6                          |
| Peak Torque                    | Nm             | 7.2                          |
| Rated Current                  | A (rms)        | 19.3                         |
| Brake                          | N/A (Optional) |                              |
| Wheel Characteristics          | material       | Polyrethane or Customization |



## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

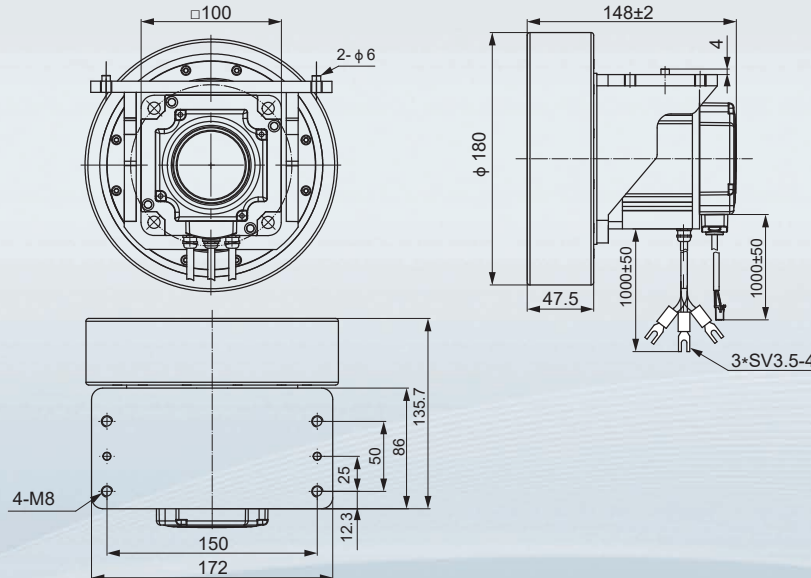
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

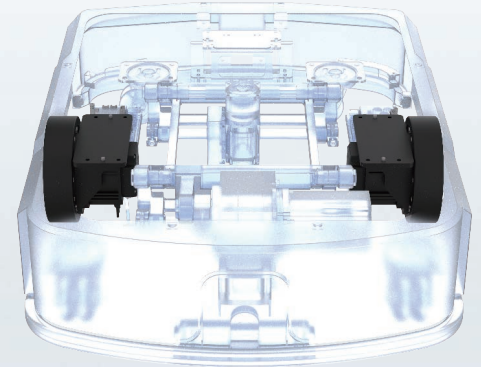
## ■ Dimensions (Unit: mm)



# MSD180-10-075-20GSL-B

## MSD Specifications

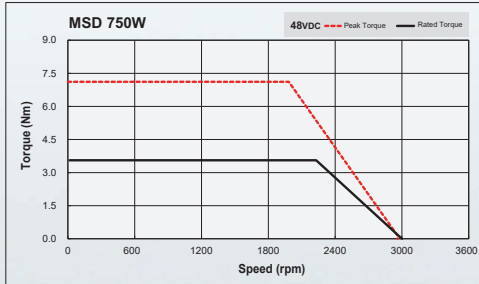
|                                |            |                              |
|--------------------------------|------------|------------------------------|
| O.D. of wheel \ width of wheel | mm         | 180 \ 47.5                   |
| Max radial load of wheel       | kg         | 625                          |
| Speed at max load              | m/s        | 1.9                          |
| Peak speed at no load          | m/s        | 2.4                          |
| Gear box ratio                 | gear ratio | 10                           |
| Basic DC Bus Voltage           | V(DC)      | 48                           |
| Rated Output Power             | Watts      | 750                          |
| Rated Speed                    | rpm        | 2000                         |
| Rated Torque                   | Nm         | 3.6                          |
| Peak Torque                    | Nm         | 7.2                          |
| Rated Current                  | A (rms)    | 19.3                         |
| Brake                          | with brake |                              |
| Wheel Characteristics          | material   | Polyrethane or Customization |



## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 60(RMS)                            |
| Continuous Current(A) | 20(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

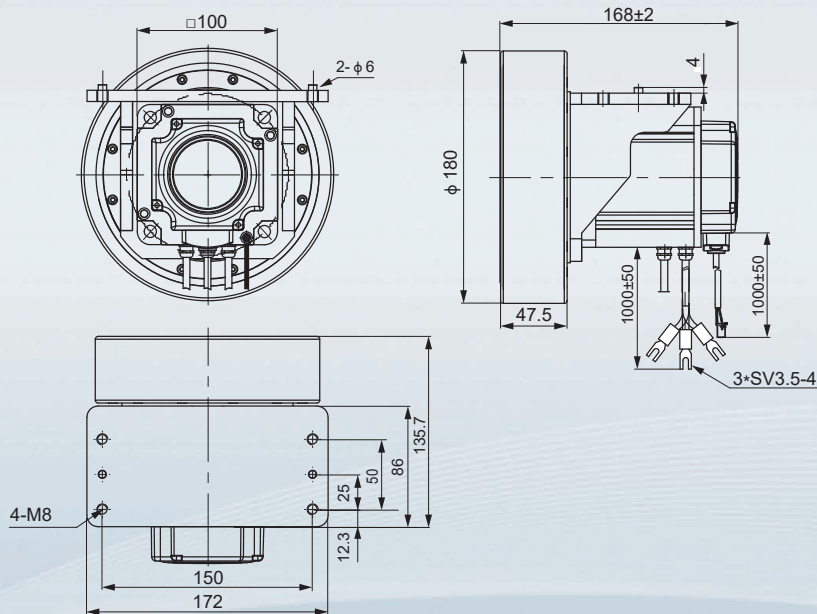
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

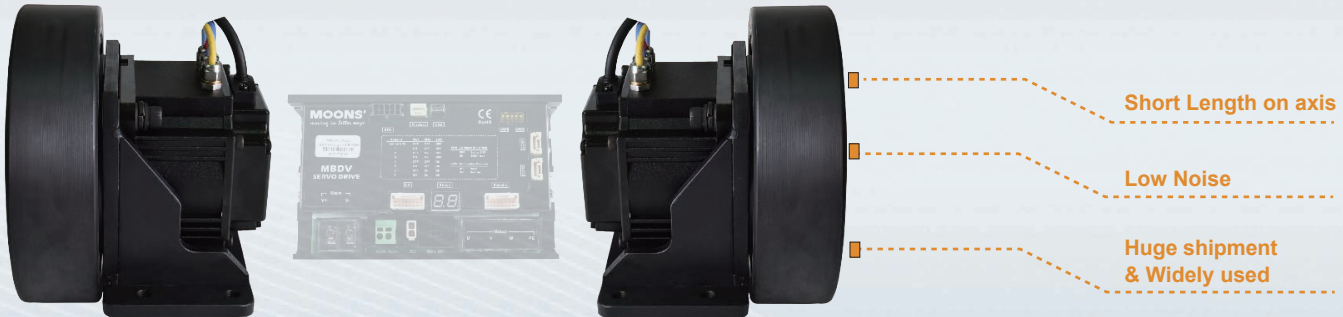
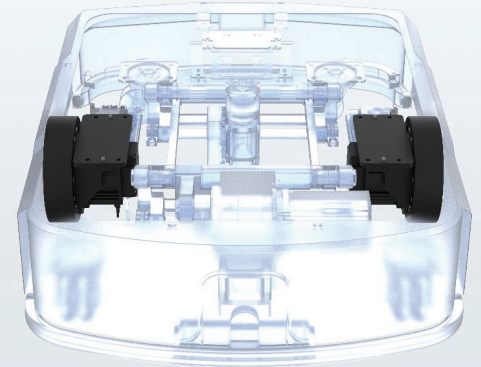
## ■ Dimensions (Unit: mm)



# MSD180-10-100-20GSL-N

## MSD Specifications

|                                |                |                              |
|--------------------------------|----------------|------------------------------|
| O.D. of wheel \ width of wheel | mm             | 180 \ 47.5                   |
| Max radial load of wheel       | kg             | 625                          |
| Speed at max load              | m/s            | 1.9                          |
| Peak speed at no load          | m/s            | 2.4                          |
| Gear box ratio                 | gear ratio     | 10                           |
| Basic DC Bus Voltage           | V(DC)          | 48                           |
| Rated Output Power             | Watts          | 1000                         |
| Rated Speed                    | rpm            | 2000                         |
| Rated Torque                   | Nm             | 4.8                          |
| Peak Torque                    | Nm             | 7.2                          |
| Rated Current                  | A (rms)        | 25                           |
| Brake                          | N/A (Optional) |                              |
| Wheel Characteristics          | material       | Polyrethane or Customization |

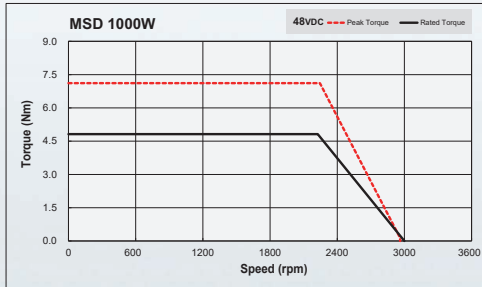


## MBDV Specifications

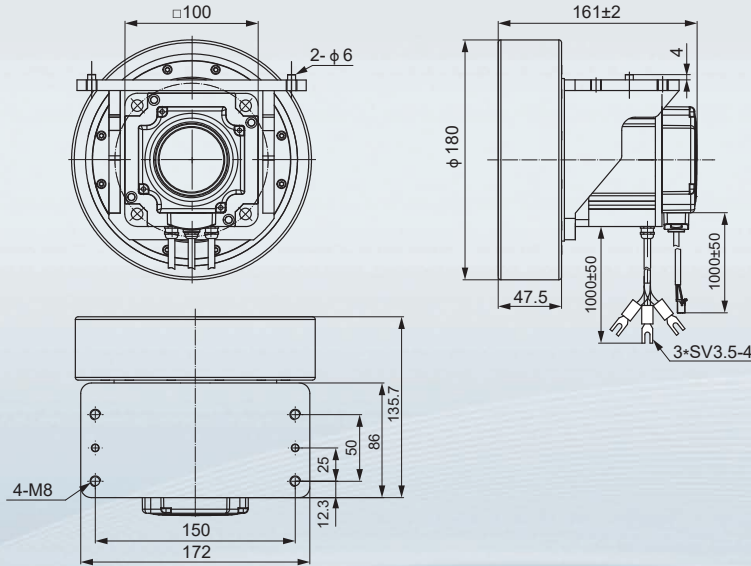
|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 120(RMS)                           |
| Continuous Current(A) | 40(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |



## ■ Torque Curves



## ■ Dimensions (Unit: mm)



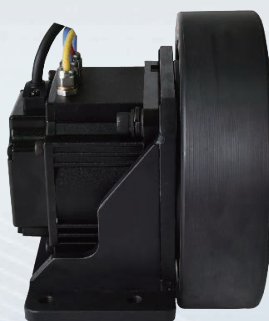
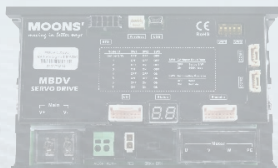
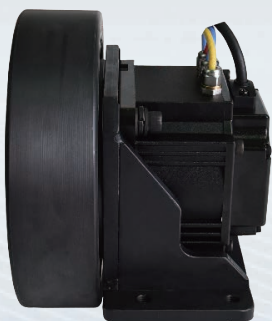
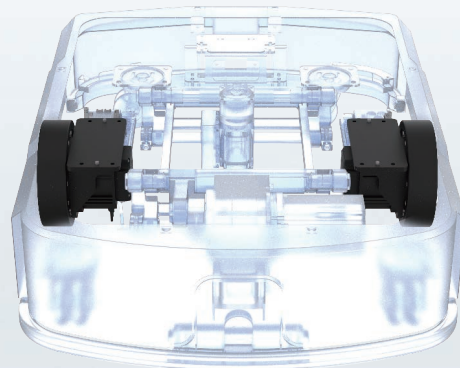
## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

# MSD180-10-100-20GSL-B

## MSD Specifications

|                                |            |                              |
|--------------------------------|------------|------------------------------|
| O.D. of wheel \ width of wheel | mm         | 180 \ 47.5                   |
| Max radial load of wheel       | kg         | 625                          |
| Speed at max load              | m/s        | 1.9                          |
| Peak speed at no load          | m/s        | 2.4                          |
| Gear box ratio                 | gear ratio | 10                           |
| Basic DC Bus Voltage           | V(DC)      | 48                           |
| Rated Output Power             | Watts      | 1000                         |
| Rated Speed                    | rpm        | 2000                         |
| Rated Torque                   | Nm         | 4.8                          |
| Peak Torque                    | Nm         | 7.2                          |
| Rated Current                  | A (rms)    | 25                           |
| Brake                          | with brake |                              |
| Wheel Characteristics          | material   | Polyrethane or Customization |



Short Length on axis

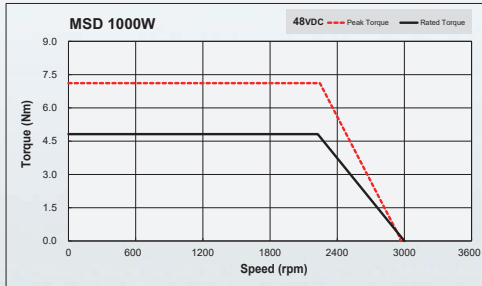
Low Noise

Huge shipment & Widely used

## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 120(RMS)                           |
| Continuous Current(A) | 40(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

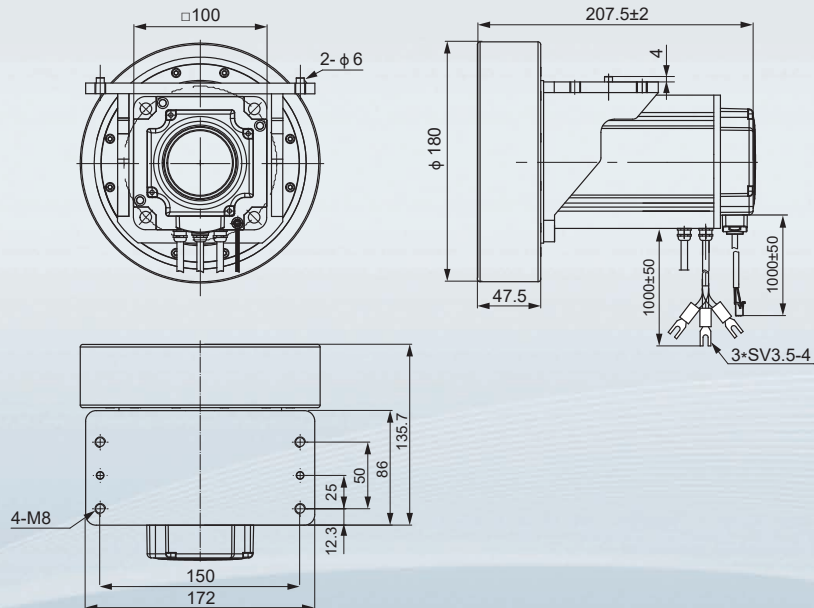
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

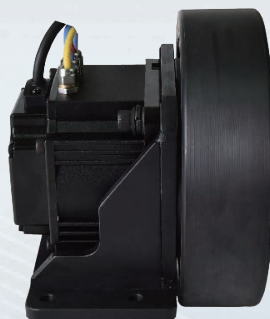
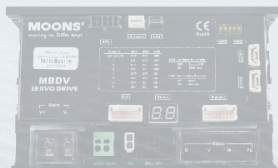
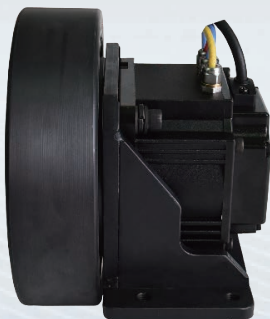
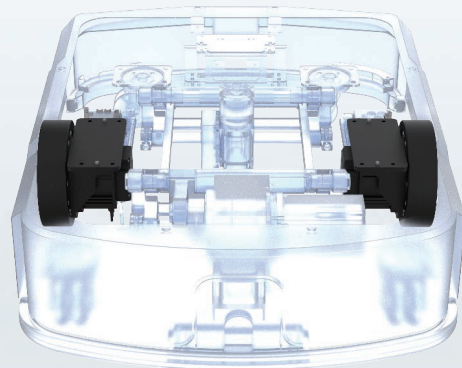
## ■ Dimensions (Unit: mm)



# MSD200-10-100-20GSL-N

## MSD Specifications

|                                |                |                              |
|--------------------------------|----------------|------------------------------|
| O.D. of wheel \ width of wheel | mm             | 200 \ 47.5                   |
| Max radial load of wheel       | kg             | 625                          |
| Speed at max load              | m/s            | 2.1                          |
| Peak speed at no load          | m/s            | 2.6                          |
| Gear box ratio                 | gear ratio     | 10                           |
| Basic DC Bus Voltage           | V(DC)          | 48                           |
| Rated Output Power             | Watts          | 1000                         |
| Rated Speed                    | rpm            | 2000                         |
| Rated Torque                   | Nm             | 4.8                          |
| Peak Torque                    | Nm             | 7.2                          |
| Rated Current                  | A (rms)        | 25                           |
| Brake                          | N/A (Optional) |                              |
| Wheel Characteristics          | material       | Polyrethane or Customization |

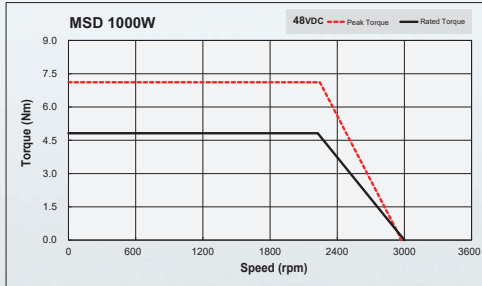


- Short Length on axis
- Low Noise
- Huge shipment & Widely used

## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 120(RMS)                           |
| Continuous Current(A) | 40(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

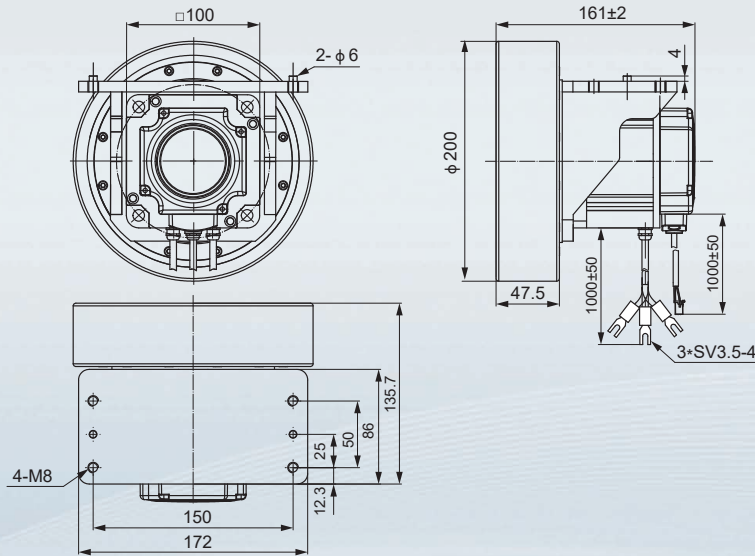
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

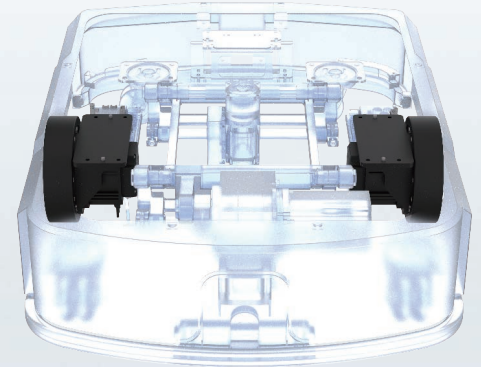
## ■ Dimensions (Unit: mm)



# MSD200-10-100-20GSL-B

## MSD Specifications

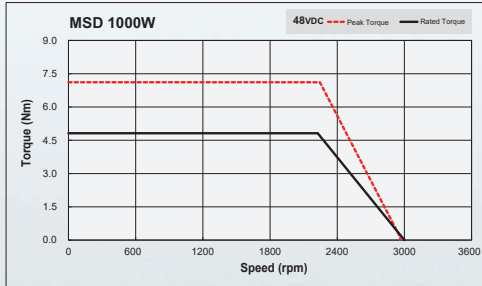
|                                |            |                              |
|--------------------------------|------------|------------------------------|
| O.D. of wheel \ width of wheel | mm         | 200 \ 47.5                   |
| Max radial load of wheel       | kg         | 625                          |
| Speed at max load              | m/s        | 2.1                          |
| Peak speed at no load          | m/s        | 2.6                          |
| Gear box ratio                 | gear ratio | 10                           |
| Basic DC Bus Voltage           | V(DC)      | 48                           |
| Rated Output Power             | Watts      | 1000                         |
| Rated Speed                    | rpm        | 2000                         |
| Rated Torque                   | Nm         | 4.8                          |
| Peak Torque                    | Nm         | 7.2                          |
| Rated Current                  | A (rms)    | 25                           |
| Brake                          | with brake |                              |
| Wheel Characteristics          | material   | Polyrethane or Customization |



## MBDV Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Voltage (VDC)         | 24-60                              |
| Peak Current (A)      | 120(RMS)                           |
| Continuous Current(A) | 40(RMS)                            |
| Safety Function       | STO, Dynamic Brake, Emergency Stop |
| Dimensions            | Refer to page24 for details        |

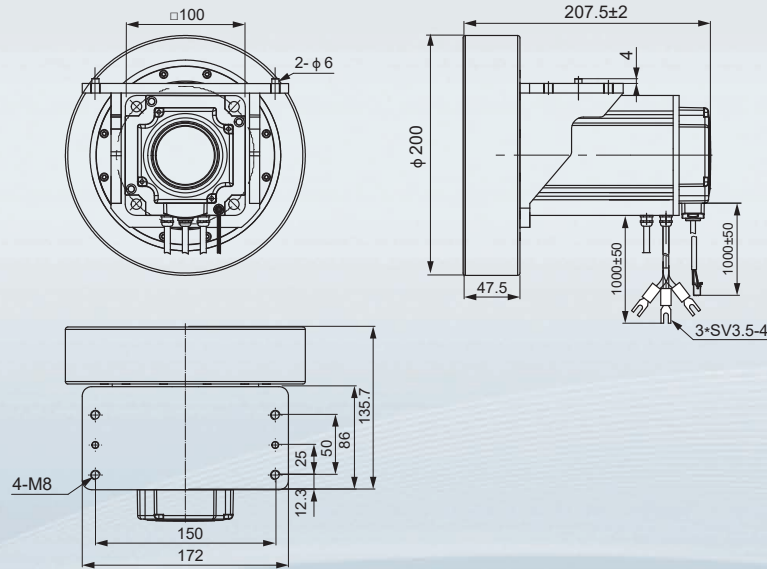
## ■ Torque Curves



## ■ Gearbox Specifications

|                         |         |
|-------------------------|---------|
| Ratio                   | 10      |
| Back lash               | ≤15arc  |
| Rated torque            | 95N.m.  |
| Max acceleration torque | 171N.m. |
| Emergency stop torque   | 285N.m. |
| Efficiency              | 97%     |

## ■ Dimensions (Unit: mm)

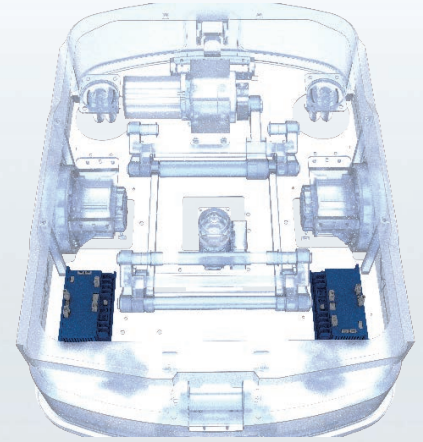


# MBDV DRIVER

## ■ MBDV Numbering System

### **MBDV - 2X - 5 20A C - \*\*\***

- |               |  |                                 |  |  |                 |
|---------------|--|---------------------------------|--|--|-----------------|
| ①             | ②  | ③                               | ④  | ⑤  | ⑥               |
| ① MBDV Series | ② Multi-axis in One<br>Blank: Single-axis<br>2X: Dual-axis | ③ Supply Voltage<br>5: 24~60VDC | ④ Current<br>20A: Rated Current 20A(RMS)<br>Peak Current 60A(RMS)<br>3SA: Rated Current 40A(RMS)<br>Peak Current 120A(RMS) | ⑤ Control Function Type<br>C — CANopen & RS485 | ⑥ Customization |



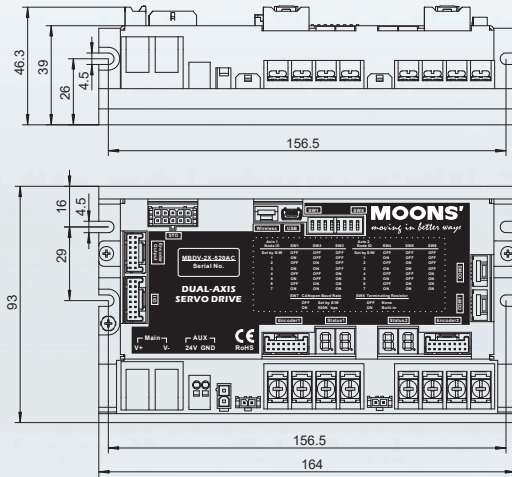
- Compact size, single and dual-axis design options
- Compatible with 100W ~ 1.5KW servo motors
- Field bus communication watch dog and emergency stop

## ■ MBDV Specifications

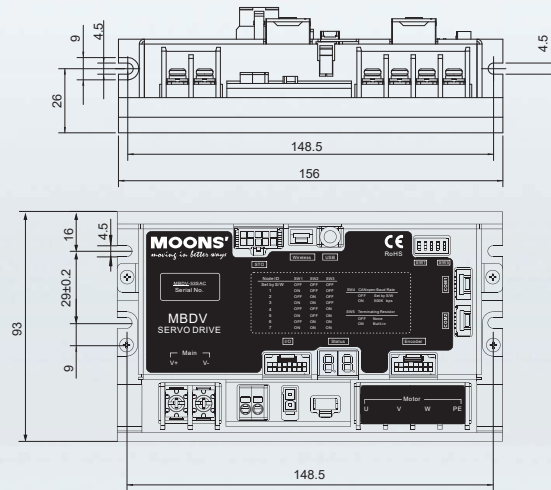
|                  |  |
|------------------|--|
| Voltage (VDC)    | 24~60  |
| Encoder Feedback | 16-bit Incremental magnetic encoder<br>2500line Incremental/optical encoder  |
| Control Mode     | ◆ CANopen communication control mode<br>Complicate with CiA402 Standard and supports PP, PV, PVT,TQ and HM mode<br>◆ Modbus/RTU communication control mode<br>Command position mode, command speed mode, command torque mode |
| Dynamic braking  | Built in   |
| STO              | STO compliant with SIL3 Level  |
| Certification    | RoHS、CE、UL   |



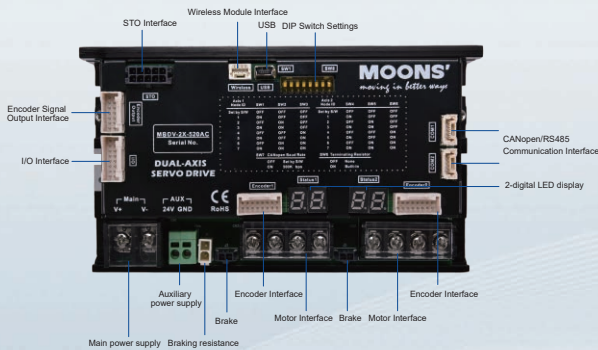
■ MBDV-2X-520AC Size (Unit: mm)



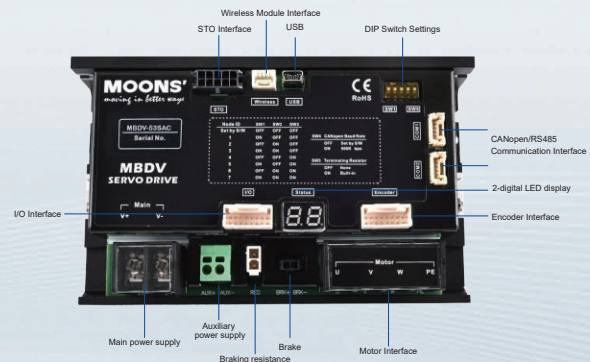
■ MBDV-53SAC Size (Unit: mm)



■ MBDV-2X-520AC Interface Description



■ MBDV-53SAC Interface Description

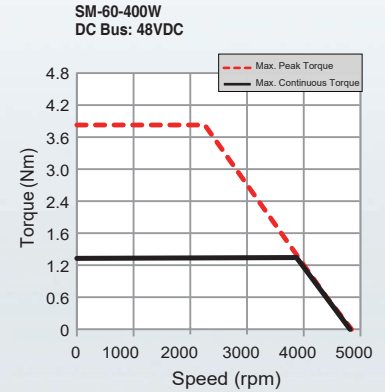


# JACKING & ROTATING MOTOR

## 60mm-Specifications

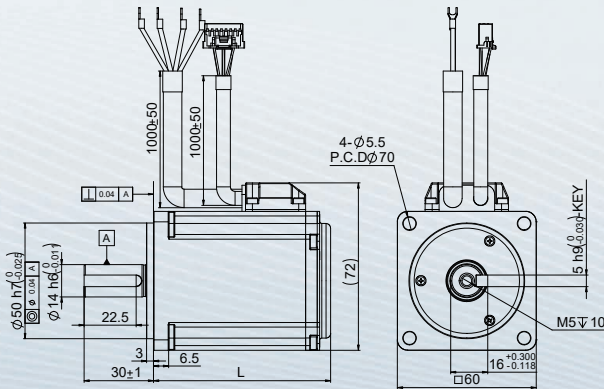
| Model                              |                   | SM0602GSL-KCY-NNV-10   | SM0602GSL-KCY-BNV-10  |
|------------------------------------|-------------------|------------------------|-----------------------|
| Basic DC Bus Voltage               | V(DC)             | 48                     | 48                    |
| Rated Output Power                 | Watts             | 400                    | 400                   |
| Rated Speed                        | rpm               | 3000                   | 3000                  |
| Max. Speed                         | rpm               | 4800                   | 4800                  |
| Rated Torque                       | Nm                | 1.27                   | 1.27                  |
| Peak Torque                        | Nm                | 3.8                    | 3.8                   |
| Rated Current                      | A (rms)           | 12.6                   | 12.6                  |
| Peak Current                       | A (rms)           | 26                     | 26                    |
| Voltage Constant $\pm 5\%$         | V(rms)/K rpm      | 6.25                   | 6.25                  |
| Torque Constant $\pm 5\%$          | Nm/A(rms)         | 0.103                  | 0.103                 |
| Inertia                            | kg m <sup>2</sup> | $0.566 \times 10^{-4}$ | $0.62 \times 10^{-4}$ |
| Shaft Load - Axial                 | N (max.)          | 70                     | 70                    |
| Shaft Load - Radial (End of Shaft) | N (max.)          | 240                    | 240                   |
| Gearbox Option                     | -                 | N/A (Optional)         |                       |

## Torque Curves



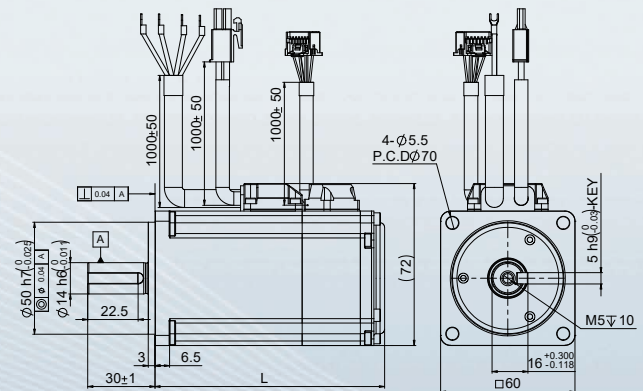
## Dimensions (Unit: mm)

### Without Brake



| Without Brake        | L    |
|----------------------|------|
| SM0602GSL-KCY-NNV-10 | 76.5 |

### With Brake



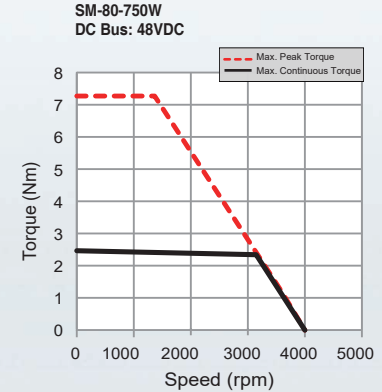
| With Brake           | L     |
|----------------------|-------|
| SM0602GSL-KCY-BNV-10 | 102.5 |

## JACKING & ROTATING MOTOR

### 80mm-Specifications

| Model                              |                   | SM0803GSL-KCY-NNV-10  | SM0803GSL-KCY-BNV-10  |
|------------------------------------|-------------------|-----------------------|-----------------------|
| Basic DC Bus Voltage               | V(DC)             | 48                    | 48                    |
| Rated Output Power                 | Watts             | 750                   | 750                   |
| Rated Speed                        | rpm               | 3000                  | 3000                  |
| Max. Speed                         | rpm               | 4000                  | 4000                  |
| Rated Torque                       | Nm                | 2.4                   | 2.4                   |
| Peak Torque                        | Nm                | 7.2                   | 7.2                   |
| Rated Current                      | A (rms)           | 19                    | 19                    |
| Peak Current                       | A (rms)           | 60                    | 60                    |
| Voltage Constant $\pm 5\%$         | V(rms)/K rpm      | 7.75                  | 7.75                  |
| Torque Constant $\pm 5\%$          | Nm/A(rms)         | 0.128                 | 0.128                 |
| Inertia                            | kg m <sup>2</sup> | $1.46 \times 10^{-4}$ | $1.63 \times 10^{-4}$ |
| Shaft Load - Axial                 | N (max.)          | 90                    | 90                    |
| Shaft Load - Radial (End of Shaft) | N (max.)          | 270                   | 270                   |
| Gearbox Option                     | -                 | N/A (Optional)        |                       |

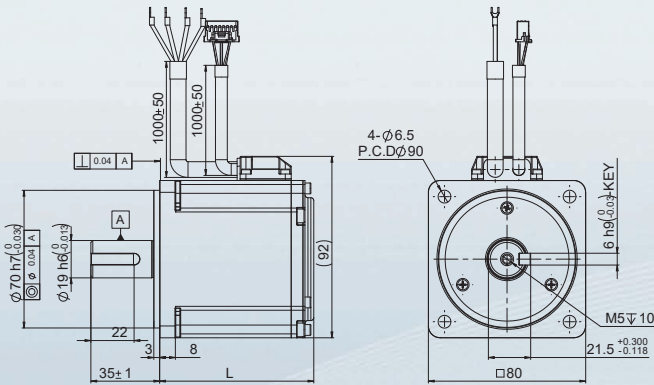
### Torque Curves



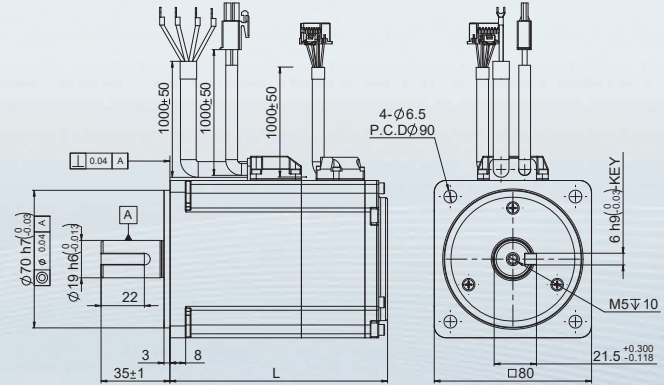
### Dimensions (Unit: mm)

#### Without Brake

#### With Brake



| Without Brake        | L    |
|----------------------|------|
| SM0803GSL-KCY-NNV-10 | 78.4 |



| With Brake           | L     |
|----------------------|-------|
| SM0803GSL-KCY-BNV-10 | 110.7 |

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