## **ELECTRIC STOPPER ACTUATOR (WITH MOTOR)**



Motor type

Step motor

Transmission

Trapezoidal screw + belt

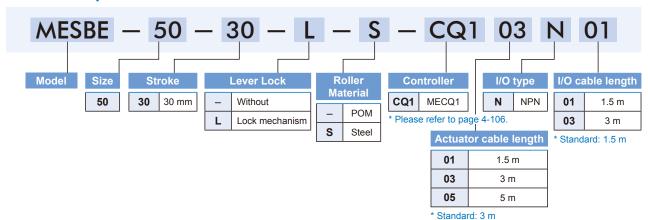
#### **Feature**

- Proximity sensors are available.
- Magnetic as standard.
- Patented lever-lock mechanism. Adjustable shock absorbers provide good capacity for different applications.

### **Specification**

| Model                     |         | MESBE                               |  |  |  |  |  |
|---------------------------|---------|-------------------------------------|--|--|--|--|--|
| Size                      |         | 50                                  |  |  |  |  |  |
| Stroke                    | (mm)    | 30                                  |  |  |  |  |  |
| Repeatability             | (mm)    | ±0.1                                |  |  |  |  |  |
| Ball screw lead           | (mm)    | 1.5                                 |  |  |  |  |  |
| Ascend / descend time (s) |         | 1                                   |  |  |  |  |  |
| Max. operating frequency  | (c.p.m) | 5.5                                 |  |  |  |  |  |
| Ambient temperature       |         | 0~+55°C (No freezing)               |  |  |  |  |  |
| Ambient humidity          | (RH)    | 35~85% (No condensation)            |  |  |  |  |  |
| Motor size                |         | □42                                 |  |  |  |  |  |
| Encoder                   |         | Incremental encoder (4000PPR)       |  |  |  |  |  |
| Rated voltage             |         | DC 24V±10%                          |  |  |  |  |  |
| Cushion                   |         | Adjustable shock absorber           |  |  |  |  |  |
| Sensor switch             |         | RDFE(V) (Please refer to page 8-19) |  |  |  |  |  |
| Weight                    | (g)     | 2000                                |  |  |  |  |  |

#### Order example



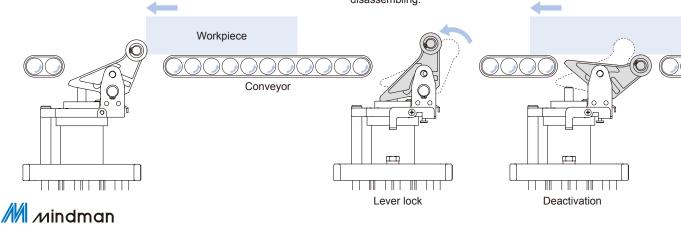
#### Intended use

Stopping transferred workpiece.

#### **Lock & Deactivation mechanism**

Lock mechanism prevents the light-weight workpiece from moving back by the force of shock absorber after damping.

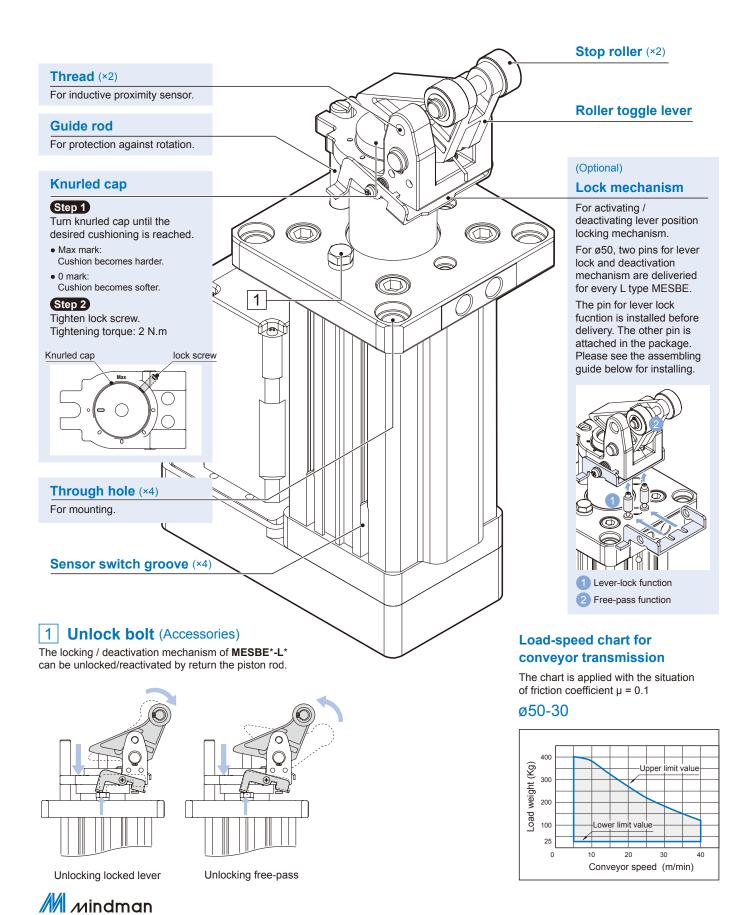
Deactivation mechanism can deactivate the cylinder without any disassembling.



# MESBE Mechanism



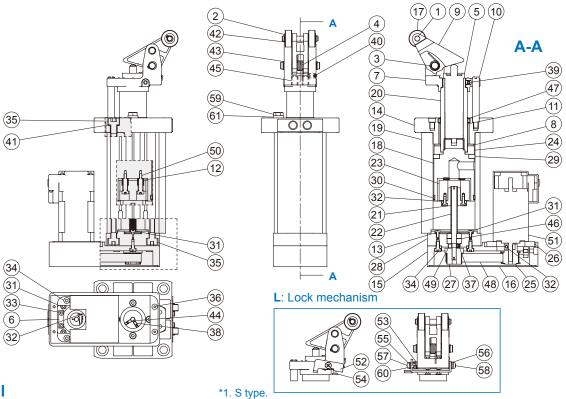
## **ELECTRIC STOPPER ACTUATOR (WITH MOTOR)**



# MESBE Inside structure & Parts list ø50



# **ELECTRIC STOPPER ACTUATOR** (WITH MOTOR)



| M | 210 |  |
|---|-----|--|
|   | 416 |  |

|     |                        |                | i. O typo. |
|-----|------------------------|----------------|------------|
| No. | Part name              | Material       | Q'y        |
| 1   | Roller pin             | Steel          | 1          |
| 2   | Roller Washer          | Steel          | 2          |
| 3   | Lever Pin              | Steel          | 1          |
| 4   | Lever spring           | Steel          | 1          |
| 5   | Adjustable absorber    | _              | 1          |
| 6   | Adjustment Block       | Aluminum alloy | 1          |
| 7   | Lever holder           | Steel          | 1          |
| 8   | Cushion pad            | NBR            | 1          |
| 9   | Lever                  | Steel          | 1          |
| 10  | Guide rod              | Steel          | 1          |
| 11  | Bush                   | Resin          | 1          |
| 12  | Spring                 | Steel          | 4          |
| 13  | Bearing cap            | Steel          | 1          |
| 14  | Cover                  | Aluminum alloy | 1          |
| 15  | Motor connector        | Aluminum alloy | 1          |
| 16  | Cover                  | Aluminum alloy | 1          |
| 17  | Dallan                 | Alloy steel *1 | 2          |
|     | Roller                 | Resin          | 2          |
| 18  | Piston                 | Aluminum alloy | 1          |
| 19  | Housing                | Aluminum alloy | 1          |
| 20  | Piston rod             | Steel          | 1          |
| 21  | ACME Consul (with mut) | Copper alloy   | 1          |
| 22  | ACME Screw (with nut)  | Steel          | 1          |
| 23  | Piston connector       | Aluminum alloy | 1          |
| 24  | Magnet holder          | Aluminum alloy | 1          |
| 25  | Driving wheel          | Aluminum alloy | 1          |
| 26  | Motor holder           | Aluminum alloy | 1          |
| 27  | Driven wheel           | Aluminum alloy | 1          |
| 28  | Housing holder         | Aluminum alloy | 1          |
| 29  | Magnet ring            | Magnet         | 1          |
| 30  | Wear ring              | Resin          | 1          |

| No. | Part name           | Material        | Q'y |
|-----|---------------------|-----------------|-----|
| 31  | Hexagon bolt        | Stainless steel | 8   |
| 32  |                     | Steel           | 5   |
| 33  |                     | Stainless steel | 2   |
| 34  |                     | Stainless steel | 8   |
| 35  |                     | Stainless steel | 8   |
| 36  | Screw               | Stainless steel | 4   |
| 37  | Screw               | Stainless steel | 2   |
| 38  |                     | Stainless steel | 2   |
| 39  | Screw               | Steel           | 1   |
| 40  |                     | Steel           | 1   |
| 41  | Spring washer       | Steel           | 4   |
| 42  | Cton ring           | Steel           | 2   |
| 43  | Stop ring           | Steel           | 2   |
| 44  | Feather key         | Steel           | 1   |
| 45  | Rod bush            | Resin           | 2   |
| 46  | Ball bearing        | Steel           | 2   |
| 47  | Dust-proof seal     | NBR             | 1   |
| 48  | Timing belt         | Resin           | 1   |
| 49  | Screw               | Steel           | 1   |
| 50  | Screw               | Steel           | 4   |
| 51  | Step motor          | -               | 1   |
| 52  | Lever lock          | Steel           | 1   |
| 53  | Spring              | Steel           | 1   |
| 54  | Locating pin        | Steel           | 2   |
| 55  | Collar              | Steel           | 1   |
| 56  | Collar #2           | Steel           | 1   |
| 57  | Screw               | Steel           | 1   |
| 58  | Screw (with washer) | Steel           | 1   |
| 59  | Screw               | Steel           | 1   |
| 60  | Spring washer       | Steel           | 1   |
| 61  | Flat washer         | Steel           | 1   |

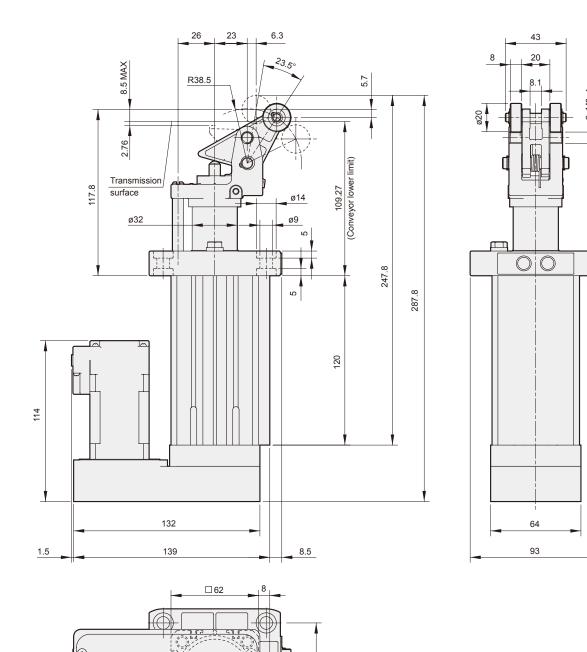


# MESBE Dimensions ø50



17.5

# **ELECTRIC STOPPER ACTUATOR** (WITH MOTOR)



□ 93

