

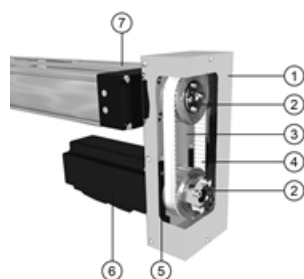
## Motor Side Drive - MSD

Available for CTV 200 & MTV 110 on request.

The linear unit must be executed with drive journal without keyway so that the MSD belt drive can be mounted on it.

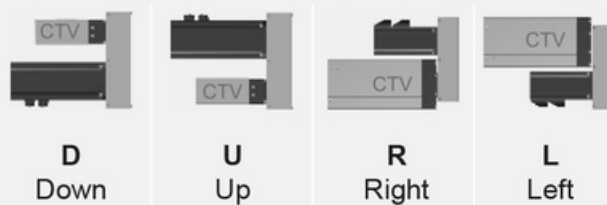
Contact Rollco for CAD-files.

Dimensions in mm.

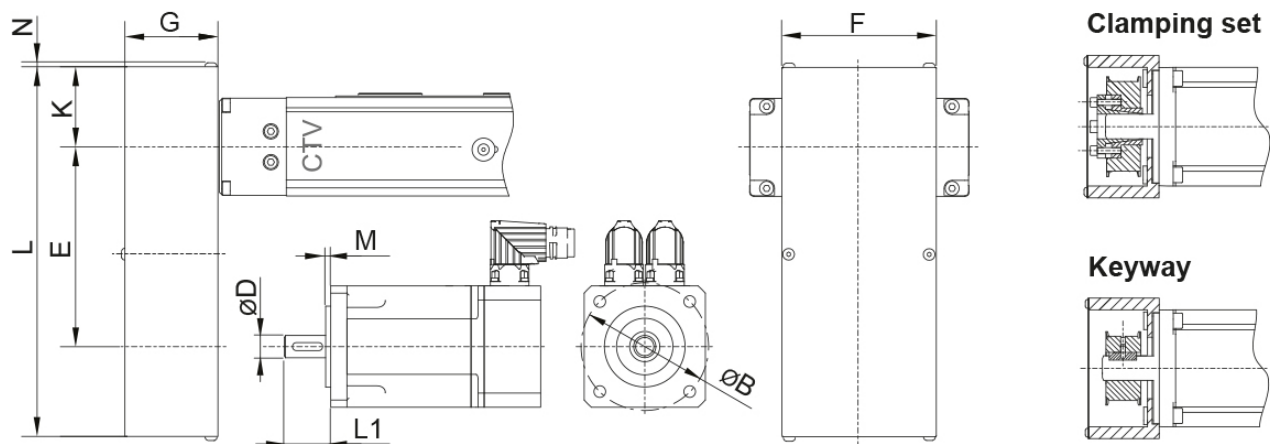


1. Cover
  2. Attachment of pulley with clamping set
  3. Anodized aluminum housing
  4. Toothed belt
  5. Belt tensioning system (elongation and frequency of belt span provided with delivery of unit)
  6. Motor
  7. Linear unit - CTV/MTV
- The linear unit must be executed with drive journal without keyway so that the MSD belt drive can be mounted on it.

### Possible installation positions of MSD



## General Data



(Max. drive speed: 3000 1/min; No load torque: approx. 0,5 Nm)

\* For a bigger value an additional adapter plate is used.

\*\* This is the load which is linearly dependent on the max. drive torque and is generated by the correct pretension of the belt.  
This load needs to be reduced in accordance with the capabilities of the motor.

| Designation        | Max. Drive Torque<br>(Linear Unit) (Nm) | Max. Radial Load on<br>Shaft (N) | Mass Moment of<br>Inertia (10 <sup>-6</sup> kg m <sup>2</sup> ) | Mass (kg) | ØB max |
|--------------------|-----------------------------------------|----------------------------------|-----------------------------------------------------------------|-----------|--------|
| MSD-CTV 90-T1-1    | 2.7                                     | 90                               | 79 m2                                                           | 0.88      | 70     |
| MSD-CTV 90-T1-1,5  | 2.7                                     | 90                               | 48 m2                                                           | 0.74      | 70     |
| MSD-CTV 110-T1-1   | 5                                       | 175                              | 72 m2                                                           | 0.9       | 70     |
| MSD-CTV 110-T1-1,5 | 5                                       | 175                              | 72 m2                                                           | 0.9       | 70     |
| MSD-MTV 65-T1-1    | 5                                       | 175                              | 41 m2                                                           | 0.8       | 70     |
| MSD-MTV 65-T1-1,5  | 5                                       | 175                              | 41 m2                                                           | 0.8       | 70     |
| MSD-CTV 110-T2-1   | 9                                       | 245                              | 206 m2                                                          | 1.51      | 100    |
| MSD-CTV 110-T2-1,5 | 9                                       | 245                              | 206 m2                                                          | 1.51      | 100    |
| MSD-MTV 65-T2-1    | 11                                      | 235                              | 335 m2                                                          | 1.53      | 100    |
| MSD-MTV 65-T2-1,5  | 11                                      | 235                              | 335 m2                                                          | 1.53      | 100    |
| MSD-CTV 145-T1-1   | 13                                      | 350                              | 207 m2                                                          | 1.52      | 100    |
| MSD-CTV 145-T1-1,5 | 13                                      | 350                              | 207 m2                                                          | 1.52      | 100    |
| MSD-MTV 80-T1-1    | 19                                      | 410                              | 335 m2                                                          | 1.64      | 100    |
| MSD-MTV 80-T1-1,5  | 19                                      | 410                              | 335 m2                                                          | 1.64      | 100    |
| MSD-CTV 145-T2-1   | 19                                      | 410                              | 551 m2                                                          | 3.3       | 120    |
| MSD-CTV 145-T2-2   | 19                                      | 410                              | 551 m2                                                          | 3.3       | 120    |
| MSD-MTV 80-T2-1    | 24                                      | 375                              | 860 m2                                                          | 2.93      | 120    |
| MSD-MTV 80-T2-2    | 24                                      | 375                              | 860 m2                                                          | 2.93      | 120    |

| Designation        | Mmax (Nm) | Motor size limits<br>- L1 -min.<br>clamping set | Motor size limits<br>- L1 -min.<br>keyway | Motor size limits<br>-L1- max. | ØD Max.<br>Clamping set | ØD Max. Keyway |
|--------------------|-----------|-------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------|----------------|
| MSD-CTV 90-T1-1    | 4         | 22                                              | 25                                        | 39                             | 14                      | 22             |
| MSD-CTV 90-T1-1,5  | 4         | /                                               | 25                                        | 39                             | /                       | 14             |
| MSD-CTV 110-T1-1   | 4         | 22                                              | 25                                        | 39                             | 14                      | 22             |
| MSD-CTV 110-T1-1,5 | 4         | 22                                              | 25                                        | 39                             | 14                      | 22             |
| MSD-MTV 65-T1-1    | 4         | /                                               | 25                                        | 39                             | /                       | 14             |

## General Data

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|--------------------|-----------|-------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------|----------------|
| MSD-MTV 65-T1-1,5  | 4         | /                                               | 25                                        | 39                             | /                       | 14             |
| MSD-CTV 110-T2-1   | 4         | 24                                              | 30                                        | 49                             | 18                      | 30             |
| MSD-CTV 110-T2-1,5 | 4         | 24                                              | 30                                        | 49                             | 18                      | 30             |
| MSD-MTV 65-T2-1    | 4         | 25                                              | 30                                        | 49                             | 14                      | 30             |
| MSD-MTV 65-T2-1,5  | 4         | 25                                              | 30                                        | 49                             | 14                      | 30             |
| MSD-CTV 145-T1-1   | 4         | 24                                              | 30                                        | 49                             | 18                      | 30             |
| MSD-CTV 145-T1-1,5 | 4         | 24                                              | 30                                        | 49                             | 18                      | 30             |
| MSD-MTV 80-T1-1    | 4         | 25                                              | 30                                        | 49                             | 14                      | 30             |
| MSD-MTV 80-T1-1,5  | 4         | 25                                              | 30                                        | 49                             | 14                      | 30             |
| MSD-CTV 145-T2-1   | 4         | 30                                              | 35                                        | 59                             | 22                      | 40             |
| MSD-CTV 145-T2-2   | 4         | 30                                              | 35                                        | 59                             | 22                      | 40             |
| MSD-MTV 80-T2-1    | 4         | 30                                              | 35                                        | 59                             | 14                      | 32             |
| MSD-MTV 80-T2-2    | 4         | 30                                              | 35                                        | 59                             | 14                      | 32             |

| Designation        | E   | F   | G  | K  | L   | N   |
|--------------------|-----|-----|----|----|-----|-----|
| MSD-CTV 90-T1-1    | 100 | 70  | 41 | 31 | 179 | 2   |
| MSD-CTV 90-T1-1,5  | 102 | 70  | 41 | 31 | 179 | 2   |
| MSD-CTV 110-T1-1   | 100 | 70  | 41 | 31 | 179 | 2   |
| MSD-CTV 110-T1-1,5 | 100 | 70  | 41 | 31 | 179 | 2   |
| MSD-MTV 65-T1-1    | 112 | 70  | 41 | 31 | 190 | 2   |
| MSD-MTV 65-T1-1,5  | 112 | 70  | 41 | 31 | 190 | 2   |
| MSD-CTV 110-T2-1   | 145 | 90  | 51 | 43 | 250 | 2   |
| MSD-CTV 110-T2-1,5 | 145 | 90  | 51 | 43 | 250 | 2   |
| MSD-MTV 65-T2-1    | 139 | 90  | 51 | 43 | 250 | 2   |
| MSD-MTV 65-T2-1,5  | 139 | 90  | 51 | 43 | 250 | 2   |
| MSD-CTV 145-T1-1   | 145 | 90  | 51 | 43 | 250 | 2   |
| MSD-CTV 145-T1-1,5 | 145 | 90  | 51 | 43 | 250 | 2   |
| MSD-MTV 80-T1-1    | 180 | 90  | 51 | 43 | 282 | 2   |
| MSD-MTV 80-T1-1,5  | 180 | 90  | 51 | 43 | 282 | 2   |
| MSD-CTV 145-T2-1   | 160 | 120 | 61 | 56 | 297 | 2.5 |
| MSD-CTV 145-T2-2   | 160 | 120 | 61 | 56 | 297 | 2.5 |
| MSD-MTV 80-T2-1    | 158 | 120 | 61 | 56 | 297 | 2.5 |
| MSD-MTV 80-T2-2    | 158 | 120 | 61 | 56 | 297 | 2.5 |