

# Linear Unit MRJ & MTJ

MTJ - 65 - 1000 - L - 1 - R - 1

**Series**

MRJ  
MTJ

**Size**

40  
65  
80  
110

**Absolute stroke (mm)**

(Absolute stroke = Effective stroke + 2 x Safety stroke)

**Carriage version**

S: Short (only for MTJ series)  
L: Long  
Leave blank for MRJ 40, MTJ 40

**Type of drive pulley**

0: Pulley with through hole  
1: Pulley with journal (with keyway)  
10: Pulley with journal (without keyway)  
2: Pulley with journal an both sides (with keyway)  
20: Pulley with journal an both sides (without keyway)  
3: Without drive unit

**Drive journal position**

L: Journal on left side  
R: Journal on right side  
Leave blank for type of drive pulley 0, 2, 20 and 3

**Protection cover**

0: In profile groove guided Polyurethane toothed belt  
1: Corrosion-resistant protection strip

# Linear Unit MTV

MTV - 65 - 1610 - ISO7 - 1 - 1000 - 2SA - 2LR

**Series**  
MTV

**Size**  
65  
80  
110

**Ball screw**  
MTV 40: Ø12x5, Ø12x10  
MTV 65: Ø16x5, Ø16x10, Ø16x16  
MTV 80: Ø20x5, Ø20x10, Ø20x20, Ø20x50  
MTV 110: Ø32x5, Ø32x10, Ø32x20, Ø32x32

**Ball screw tolerance**  
ISO7 (Standard)  
ISO5

**Ball screw journal**  
0: Without keyway  
1: With keyway

**Absolute stroke (mm)**  
(Absolute stroke = Effective stroke + 2 x Safety stroke)  
2LR version: Absolute stroke of one carriage.\*

**Number of screw supports  $n_{SA}$**   
(Only even integer number - 2, 4, 6, 8, 10SA) - for MTV 65 max. 4SA is available.)  
Leave blank: Without SA

**2LR version :**  
Both right and left ball screws are used.  
Leave blank: Standard version

\*Available for: MTV 65: 16x5, 16x10  
MTV 80: 20x5

# Linear Unit MTJ ECO

MTJ - 40 - ECO - 1000 - L - 1 - R

**Series**

MTJ

**Size**

40

**Type**

ECO

**Absolute stroke (mm)**

(Absolute stroke = Effective stroke + 2 x Safety stroke)

**Carriage version**

S: Short

L: Long

**Type of drive pulley**

0: Pulley with through hole

1: Pulley with journal (with keyway)

10: Pulley with journal (without keyway)

2: Pulley with journal on both sides (with keyway)

20: Pulley with journal on both sides (without keyway)

3: Without drive unit

**Drive journal position**

L: Journal on left side

R: Journal on right side

Leave blank for type of drive pulley 0, 2, 20 and 3

# Linear Unit MTJZ

MTJZ - 65 - 1000 - 1 - O - 1

**Series**

MTJZ

**Size**

- 40
- 65
- 80
- 110

**Absolute stroke (mm)**

(Absolute stroke = Effective stroke + 2 x Safety stroke)

**Type of drive pulley\***

- 0: Pulley with through hole
- 1: Pulley with journal (with keyway)
- 10: Pulley with journal (without keyway)
- 2: Pulley with journal on both sides (with keyway)
- 20: Pulley with journal on both sides (without keyway)

**Clamping element**

- 0: Without
- 1: With (available only for MTJZ 110)

**Number of drive blocks**

The stated number specifies the number of drive blocks on one linear unit.

\* MTJZ 110 only available with drive pulley with through hole.

# Linear Unit CTJ

CTJ - 145 - 1000 - L - 1 - R - 1

**Series**

CTJ

**Size**

90  
110  
145  
200

**Absolute stroke (mm)**

(Absolute stroke = Effective stroke + 2 x Safety stroke)

**Carriage version**

S: Short  
L: Long

**Type of drive pulley**

1: Pulley with journal (with keyway)  
10: Pulley with journal (without keyway)  
2: Pulley with journal on both sides (with keyway)  
20: Pulley with journal on both sides (without keyway)  
3: Without drive unit

**Drive journal position**

L: Journal on left side  
R: Journal on right side  
Leave blank for type of drive pulley 3

**Connection plate**

0: Without  
1: With

\* By CTJ 200 with drive pulley 2 or 20, the drive journal position left - L or right - R side must also be specified - motor/gearbox attachment side.

# Linear Unit CTV

CTV - 110 - 1610 - ISO7 - 1 - 1000 - L - 1 - 1

**Series**

CTV

**Size**

90  
110  
145  
200

**Ball screw**

CTV 90: Ø12x5, Ø12x10  
CTV 110: Ø16x5, Ø16x10, Ø16x16  
CTV 145: Ø20x5, Ø20x10, Ø20x20, Ø20x50  
CTV 200: Ø32x5, Ø32x10, Ø32x20, Ø32x32

**Ball screw tolerance**

ISO7 (Standard)  
ISO5

**Ball screw journal\***

0: Without keyway  
1: With keyway

**Absolute stroke (mm)**

(Absolute stroke = Effective stroke + 2 x Safety stroke)

**Carriage version**

S: Short  
L: Long

**Connection plate**

0: Without  
1: With

**Protection cover**

0: Without antistatic PU Gap-type seal strip  
1: With antistatic PU Gap-type seal strip (standard)  
2: With corrosion-resistant protection strip

CTV 90 only available without keyway - 0.

# Motor Side Drive - MSD

MSD - CTV 110 - T2 - 1,5 - MSM040B

Motor side drive

Lineae unit series

MTV / CTV

Type

Gear ratio

Motor type

According to customer's drawing

## Motor adapter with coupling

VK - CTV 110 - SMB60 - GESM14

Motor adapter				
Linear unit series				
Motor type				
Coupling type				

## Couplings

COUPLING - GESM14 - F8C - F14C

Coupling				
Coupling type/size 7, 9, 14, 19/24, 24/28, 28/38, 38/45				
Hole diameter				
Option C: with keyway Leave blank without keyway				



# Synchronisation Shaft

OSR - 19 - MTJ65 - LM - 890 - F16C - F16C

**Type**

OSL  
OSR

**Size**

OSL: 14, 19/24, 24/28, 28/38, 38/45  
OSR: 19, 24, 28, 38

**Linear unit series**

MTJ/MRJ/MTJ ECO: 40, 65, 80, 110  
CTJ:90, 110, 145, 200  
If not for linear unit, leave blank

**Length type**

LM (Middle distance of the linear units)  
Lt (Production length of the sync. shaft)

**Length (mm)**

**Hole diameter**

One side end hub1  
One side end hub2

**Option**

C: with keyway  
Leave blank without keyway

