## Ordering Code

WMZD - BS - _ _ _ - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Model | Drive Unit | Size | Stroke | Pitch | Mounting Kit Model | Mounting Kit Assembly | Mounting Kit Side |

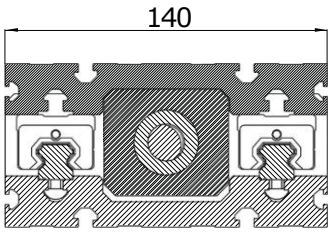
## 1 - Model

WMZD : Table Linear Module

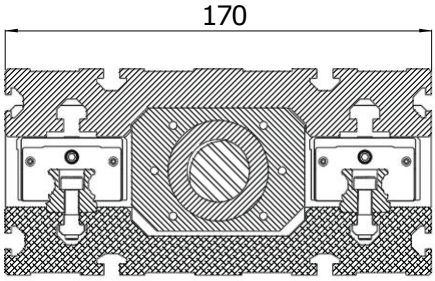
## 2 - Drive Unit

BS : Ball Screw

## 3 - Size




WMZD - BS - 140




WMZD - BS - 170

## 4 - Stroke

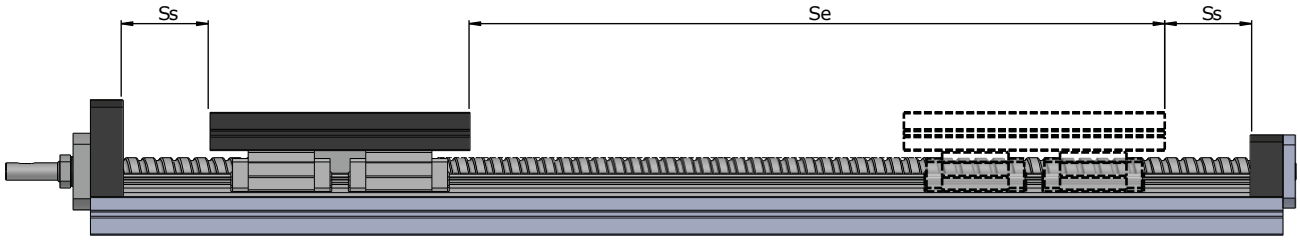
| | |
|---|---|
| WMZD - 140 | 0000 : Maximum 1200 mm |
| WMZD - 170 | 0000 : Maximum 1600 mm |

### Movement Stroke

In addition to the desired movement stroke, it is recommended to leave a space on both sides until 2xPitch.

$Sm = Se + 2.Ss$
$Ss = 2.p$

Sm : Movement Stroke
Se : Safety Stroke
p : Ball Screw Pitch




## 5 - Pitch

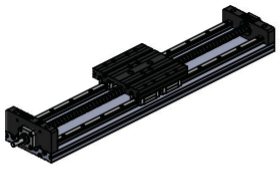
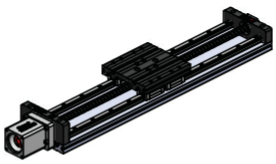
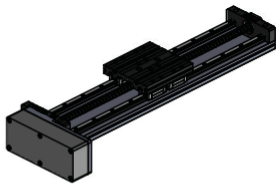
| | | |
|---|---|---|
| WMZD - 140 | WMZD - 170 | 05 : *5 mm/rev* |
| | | 10 : *10 mm/rev* |
| | | 50 : *50 mm/rev* |

## Ordering Code

WMZD - BS - _ _ _ - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _

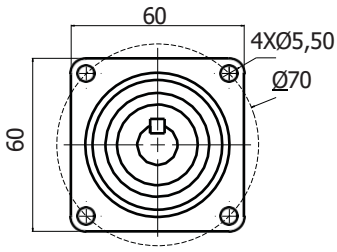
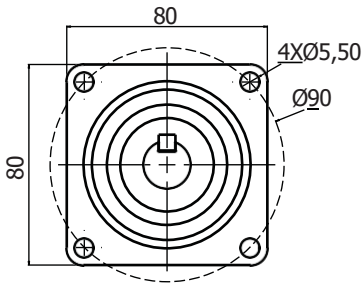
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| Model | Drive Unit | Size | Stroke | Pitch | Mounting Kit Model | Mounting Kit Assembly | Mounting Kit Side |

## 6 - Mounting Kit Model

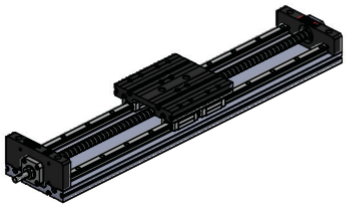
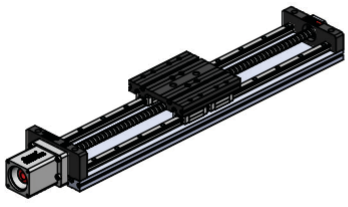
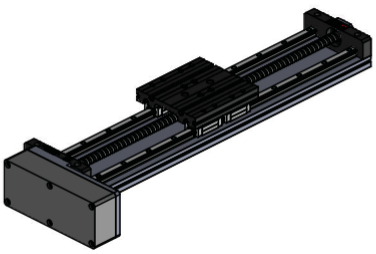
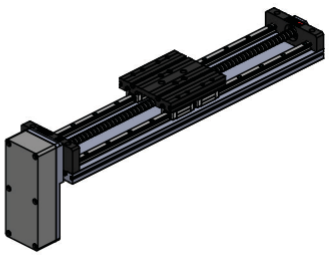
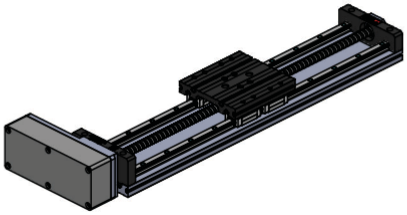
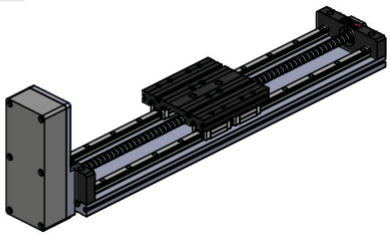
| | | |
|---|---|---|
|  |  |  |
| 00 : Without Mounting | WDAK : Axial Kit | WDPK : Parallel Kit |

**Note 1** : Please contact for different motor types and mounting sizes.
**Note 2** : Please contact for to use reducer.

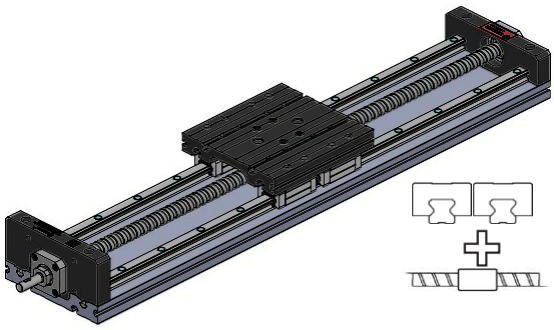
## 7 - Mounting Kit Assembly

| | | |
|---|---|---|
| |  |  |
| 00 : Without Motor | 070 : Ø70 motor mounting | 090 : Ø90 motor mounting |

## 8 - Mounting Kit Side

| | | |
|---|---|---|
| 00   | 01  | 02  |
| | 03  | 04  |

# WINMAN WMZD Series Table Linear Modules

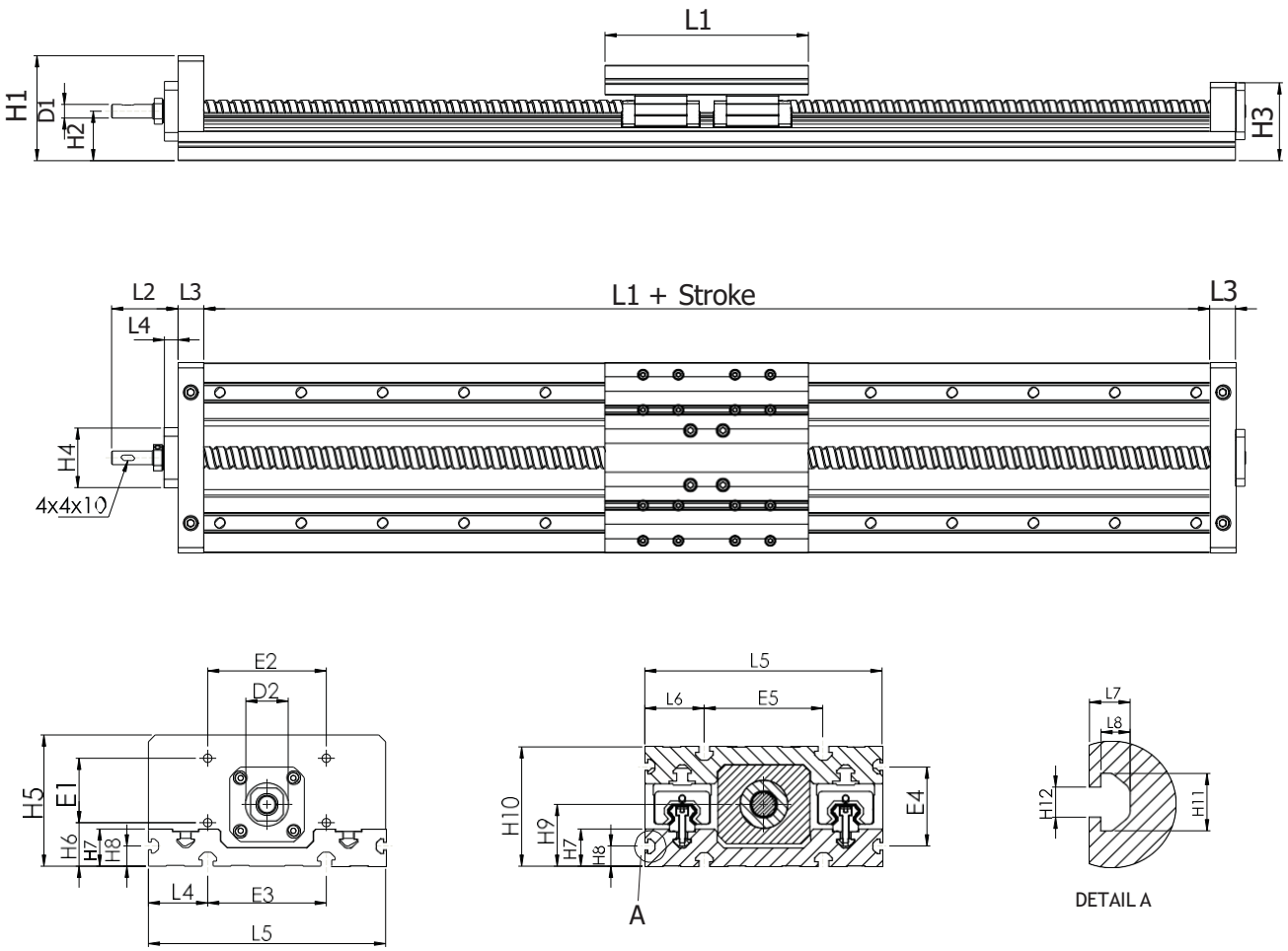


## Specification

| Module Type | | | WMZD-140 | WMZD-170 |
|---|---|---|---|---|
| Static Load | Co | kN | 55,2 | 97,2 |
| Dynamic Load | C | kN | 34,0 | 56,4 |
| Maximum Stroke | | mm | 1500 | 1500 |
| Position Accracy | | µm/mm | 53/300 | 53/300 |
| Repeating Accuracy | | mm | < 0 ,05 | < 0 ,05 |
| Acceleration | | m/s² | 10 | 10 |

**Note :** Calculated value are theorical values. We recommend you to calculate safety factor as five(5).

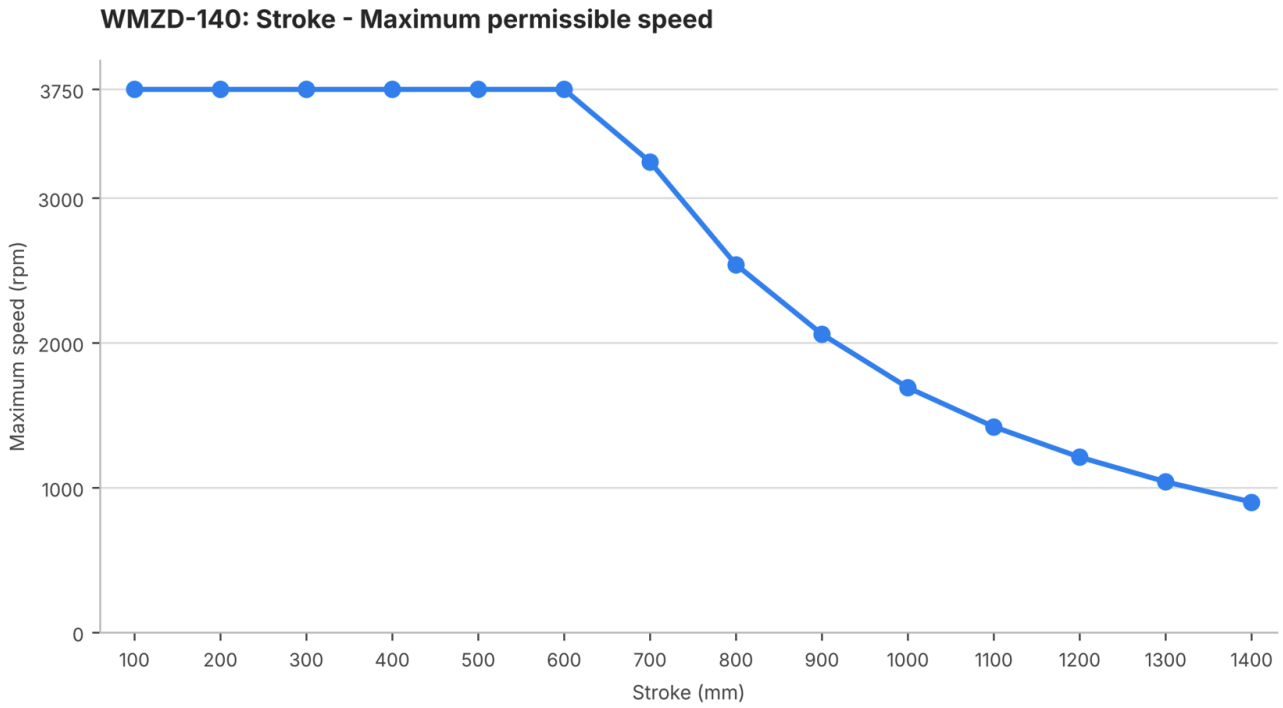
## Technical Drawing

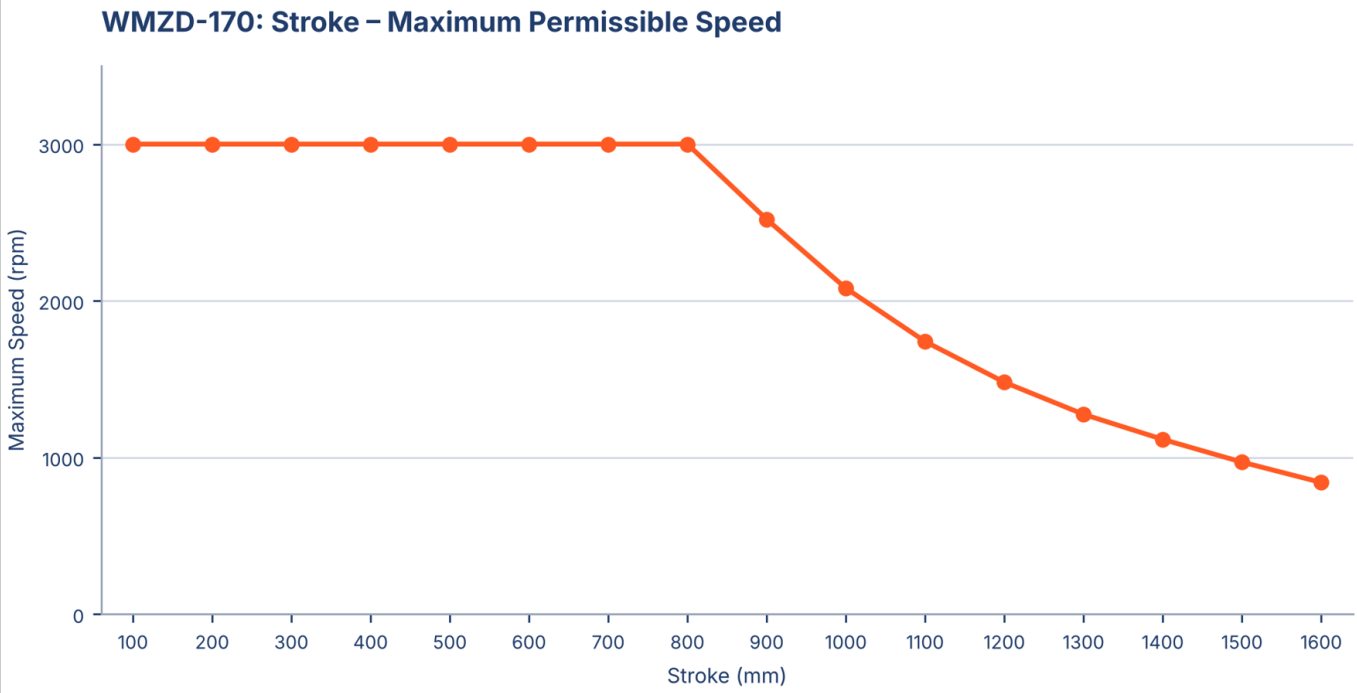



| Modul Type | D1 | D2 | E1 | E2 | E3 | E4 | E5 | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WMZD 140 | 10 | 25 | 38 | 70 | 70 | 46,5 | 70 | 77,5 | 36,5 | 57,5 | 44 | 77,5 | 25,5 | 22 |
| WMZD 170 | 12 | 28 | 38 | 80 | 85 | 55 | 85 | 84,5 | 41,5 | 67,5 | 52 | 84,5 | 31,5 | 27 |

| Modul Type | H8 | H9 | H10 | H11 | H12 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WMZD 140 | 12 | 36,5 | 70,5 | 8,45 | 6,40 | 150 | 49 | 19 | 10 | 140 | 35 | 6 | 4,3 |
| WMZD 170 | 13,5 | 41,5 | 82 | 12 | 6,40 | 200 | 58 | 19 | 15 | 170 | 42,5 | 8 | 5,6 |

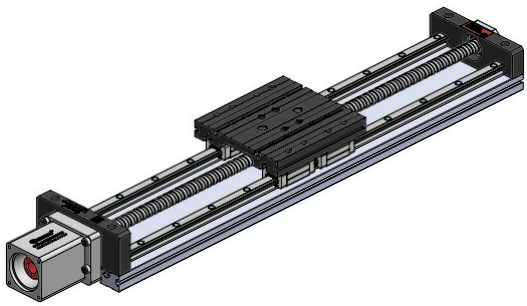
## Permissible Speed-Stroke Graph

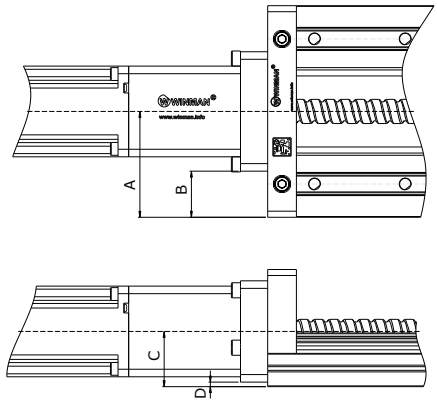


## WDAK Axial Mounting Kit

### Technical Drawing

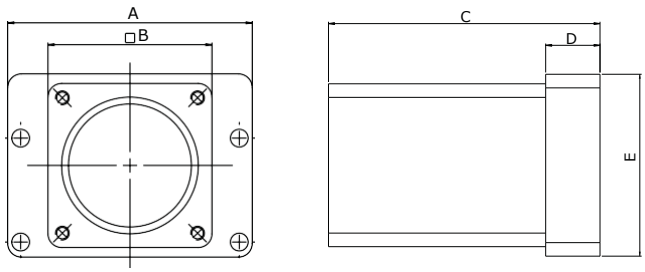




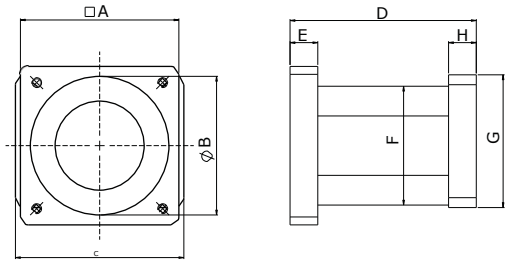

| Module Type | Mounting Kit Assembly | A | B | C | D |
|---|---|---|---|---|---|
| WMZD 140 | WDAK - 070 | 70 | 30,5 | 36,5 | 3 |
| | WDAK - 090 | 70 | 30,5 | 36,5 | 3 |
| WMZD 170 | WDAK - 070 | 85 | 40,25 | 41,5 | 3 |
| | WDAK - 090 | 85 | 40,25 | 41,5 | 3 |

### Bellhousing

**WDAK-070**



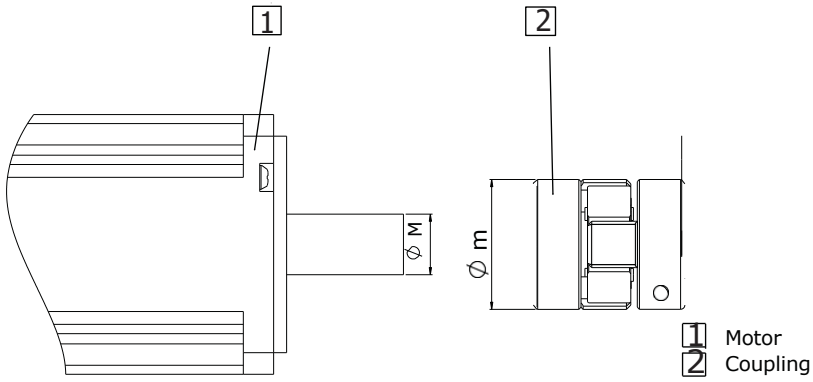

**WDAK-090**




| Module Type | A | B | C | D | E |
|---|---|---|---|---|---|
| WMZD 140 | 79 | 60 | 92 | 18 | 67 |
| WMZD 170 | 89,5 | 60 | 100 | 20 | 67 |

| Module Type | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| WMZD 140 | 80 | 70 | 85 | 94 | 14 | 60 | 67 | 14 |
| WMZD 170 | 80 | 70 | 89,5 | 103 | 25 | 60 | 80 | 14 |

### Coupling

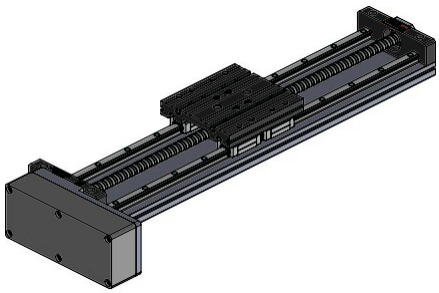


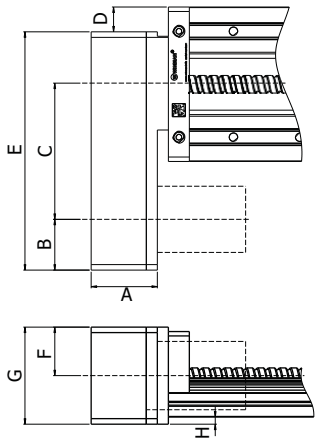

| Motor Type | M | m | Coupling Model |
|---|---|---|---|
| WDAK-070 | 14 | 30 | WWJCL - 30CRD |
| WDAK-090 | 19 | 40 | WWJCL - 40CRD |

## WINMAN WDPK Parallel Mounting Kit

### Technical Drawing

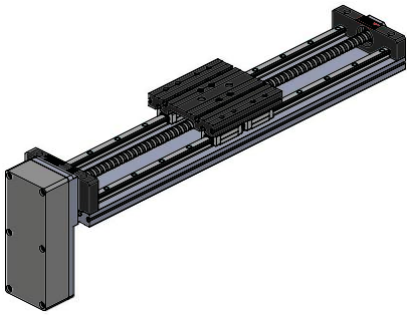
WDPK - _ _ - 01

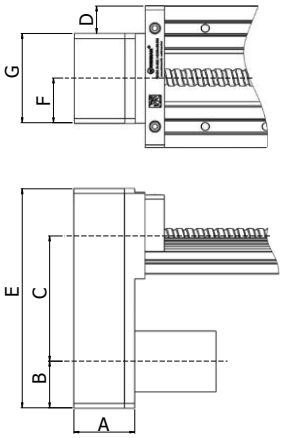





| Module Type | WMZD - 140 | | WMZD - 170 | |
|---|---|---|---|---|
| Kit Assembly | WDPK - 070 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 |
| A | 60 | 70 | 70 | 80 |
| B | 46 | 50 | 40 | 50 |
| C | 122,5 | 186 | 142 | 186 |
| D | 22,5 | 25 | 35 | 35 |
| E | 216 | 297 | 235 | 297 |
| F | 45 | 43 | 50 | 50 |
| G | 88 | 88 | 100 | 100 |
| H | 6,5 | 24,5 | 11,5 | 19,5 |

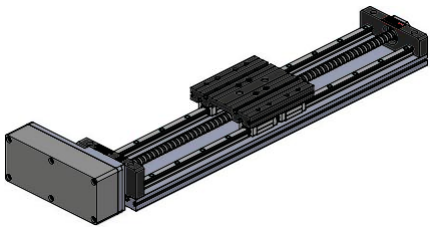
WDPK - _ _ - 02

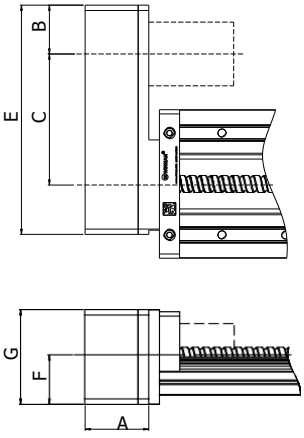





| Module Type | WMZD - 140 | | WMZD - 170 | |
|---|---|---|---|---|
| Kit Assembly | WDPK - 070 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 |
| A | 60 | 70 | 70 | 80 |
| B | 46 | 50 | 40 | 50 |
| C | 122,5 | 186 | 142 | 186 |
| D | 25 | 25 | 32 | 24 |
| E | 216 | 297 | 235 | 297 |
| F | 43 | 43 | 50 | 50 |
| G | 88 | 88 | 100 | 100 |
| H | - | 24,5 | - | - |

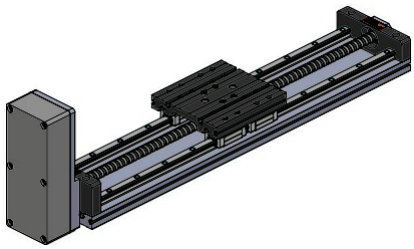
WDPK - _ _ - 03

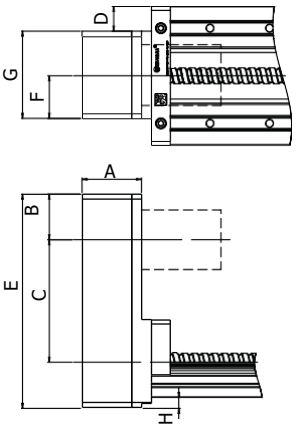





| Module Type | WMZD - 140 | | WMZD - 170 | |
|---|---|---|---|---|
| Kit Assembly | WDPK - 070 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 | WDPK - 090 - 01 |
| A | 60 | 70 | 70 | 80 |
| B | 46 | 50 | 50 | 50 |
| C | 122,5 | 186 | 186 | 186 |
| D | 25 | 20 | 20 | 35 |
| E | 216 | 297 | 297 | 297 |
| F | 45 | 50 | 50 | 50 |
| G | 88 | 100 | 100 | 100 |
| H | 11 | 24,5 | 24,5 | 19,5 |

WDPK - _ _ - 04

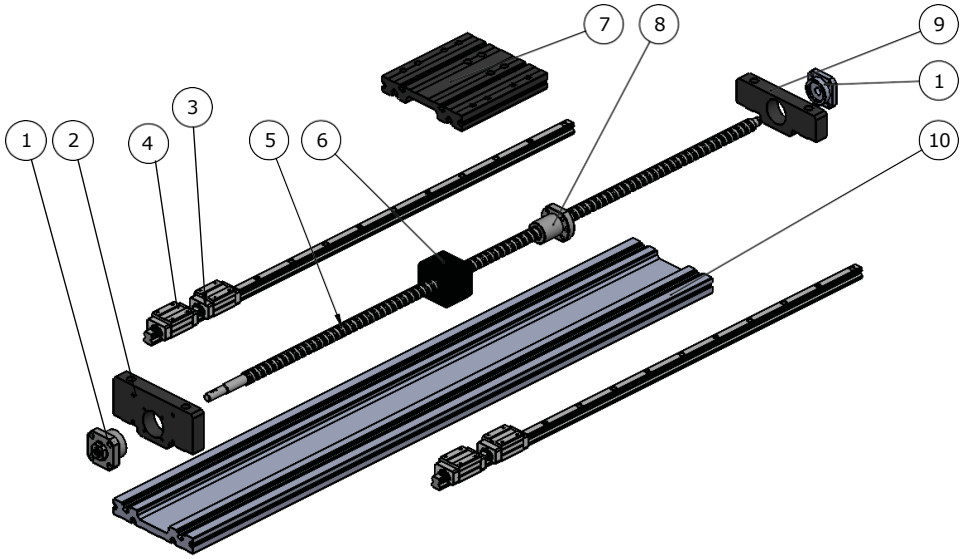





| Module Type | WMZD - 140 | | WMZD - 170 | |
|---|---|---|---|---|
| Kit Assembly | WDPK - 070 - 01 | WDPK - 090 - 01 | WDPK – 090 - 01 | WDPK – 090 - 01 |
| A | 60 | 70 | 70 | 80 |
| B | 46 | 50 | 40 | 50 |
| C | 122,5 | 186 | 142 | 186 |
| D | 22,5 | 9 | 32 | 24 |
| E | 216 | 297 | 235 | 297 |
| F | 43 | 43 | 50 | 50 |
| G | 88 | 88 | 100 | 100 |
| H | 8,5 | 5 | 20 | 10 |

## Assembly

WMZD Linear Module

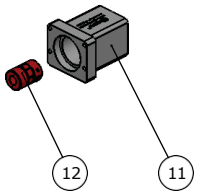


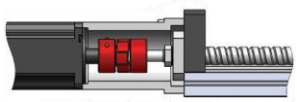

WDPK Parallel Kit






WDAK Axial Kit



| Piece | Qty | Part Name | Assembly |
|---|---|---|---|
| 1 | 2 | Ball Screw Bearing | Module |
| 2 | 1 | Front Block | |
| 3 | 2 | Linear Guide | |
| 4 | 4 | Linear Carriage | |
| 5 | 2 | Ball Screw | |
| 6 | 4 | Ball Nut Bearing | |
| 7 | 1 | Mounting Plate | |
| 8 | 1 | Ball Nut | |
| 9 | 1 | Back Block | |
| 10 | 1 | Profile | |
| 11 | 1 | Bellhousing | Axial Kit |
| 12 | 1 | Coupling | |
| 13 | 1 | Parallel Kit Cover | Parallel Kit |
| 14 | 1 | Toothed Belt | |
| 15 | 2 | Timing Belt Pulleys | |
| 16 | 2 | Taper Bushing | |
| 17 | 1 | Parallel Kit Box | |

## Maintenance

Basic lubrication is done in-factory before shipment.

Bearings of the ball screw have been lubricated for life and will not require in-service lubrication under normal operating conditions.

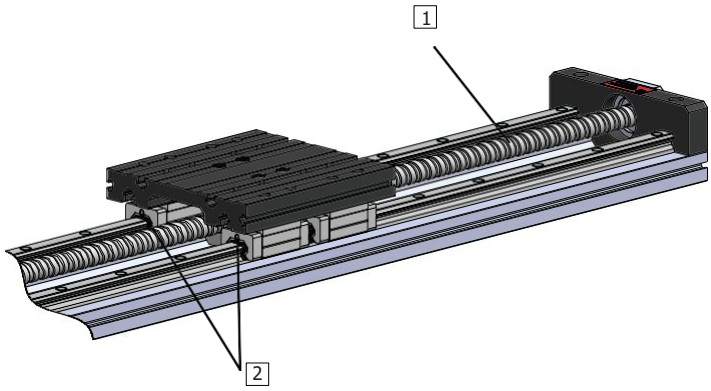
Ball screw (1) is lubricated without nipple, grease is apllied directly ball screw.

Linear carriages is lubricated via nipple (2).

Table modules must be lubricated with suitable grease.

Lithium soap grease should be used.

Caution: Do not use grease containing graphite or MoS!




Lubrication is performed every 400 hours or 400 km total working distance by normal operating conditions.

Lubrication quantites is provided in table by normal operating conditions.

## Normal Working Conditions

| | | | |
|---|---|---|---|
| Ambient Temberature | | °C | 10 ~ 40 |
| Speed | | m/s | ≤ 1,0 |
| Screw Rotation Speed | | rev/min | 2500 |
| Load | | kN | ≤ 0,2 C |
| Stroke | | mm | > 60 |
| Lubrication Period | | Km | 400 |
| | | Hour | 400 |
| Ball Screw Lubricate Dose | WMZD - 140 | cm³ | 2,2 |
| | WMZD - 170 | cm³ | 4,2 |
| Linear Carriage Lubricate Dose | WMZD - 140 | cm³ /port | 0,4 |
| | WMZD - 170 | cm³ /port | 0,6 |



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