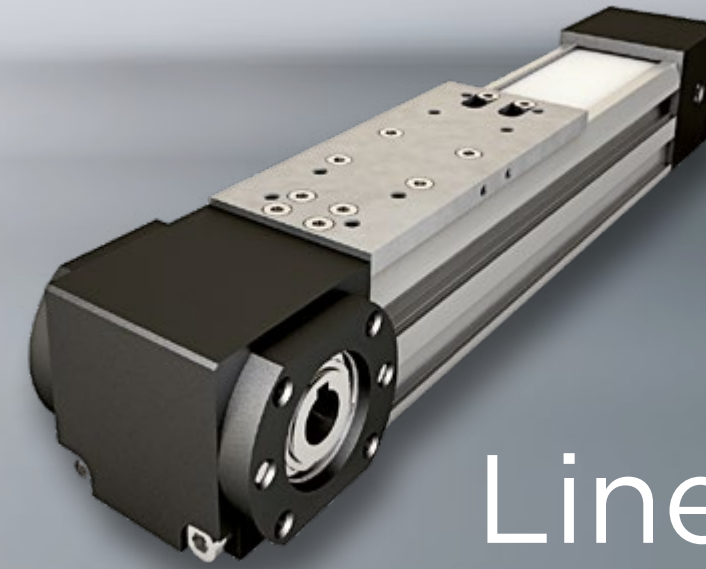


# Linear

## Modules



# Linear Modules

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**Dierre Motion** has been designing and manufacturing linear modules for almost 20 years, boasting the most complete and broadest range on the market today.

Thanks to the experience gained and the use of technologically advanced design and production tools, we are able to offer various standard or customized solutions.

The precision and quality of the extrusions, the internal production of the various parts and the use of primary brand components are some of the elements that allow us to provide a reliable and high quality product.



## DRIVEN WHEEL LINEAR SYSTEMS WHEELS AND PROFILES

Linear driven roller systems consist of a guide rail, a standard car plate and running wheels. The rails are made of anodized extruded aluminium (available in various sections) on which the round sliding bars in hardened ground and chromed steel are fixed by riveted joint. Thanks to the wheels on the eccentric pin it is possible to achieve perfect coupling with the bars and determine the desired preload. The sliding wheels have 2RS protections greased for life and can be with a gothic arch or "V" profile with 120° groove; the latter allow for the best discharge of the impurities present in some work environments.

### MAIN FEATURES

- cheapness
- maintenance free
- silence
- maximum flexibility
- adjustable preload

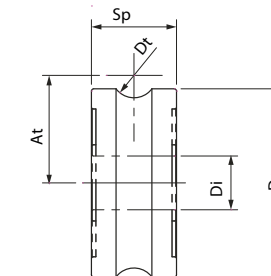
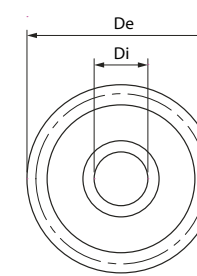
### OPTIONS

- customer specified guide fixing holes
- sliding bars and wheels in stainless steel
- car plate according to customer design
- connection system for guides over 6000 mm

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**

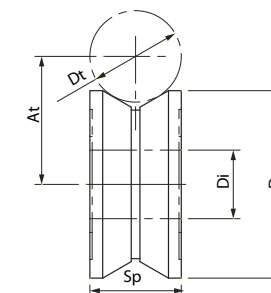
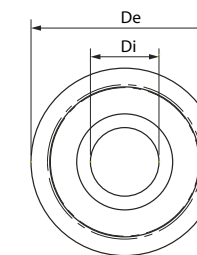
### Wheels without pin - profiled

Cc (N) = Dynamic load combined limit - Cco (N) = Static load combined limit



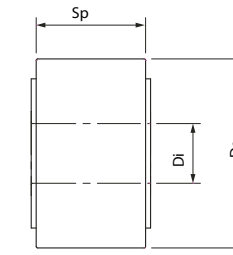
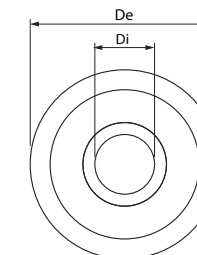
| Code         | Technical features |         |      |         |         |        |         |
|--------------|--------------------|---------|------|---------|---------|--------|---------|
|              | Di (mm)            | De (mm) | Sp   | Dt (mm) | At (mm) | Cc (N) | Cco (N) |
| CRUGC0000012 | 5                  | 16      | 8    | 4       | 9       | 712    | 1016    |
| CRUGC0000017 | 5                  | 17      | 8    | 6       | 9       | 712    | 1016    |
| CRUGC0000019 | 8                  | 24      | 11   | 6       | 14      | 1824   | 2936    |
| CRUGC0000004 | 12                 | 35      | 15.9 | 10      | 20.65   | 4080   | 6800    |
| CRUGC0000007 | 12                 | 35      | 15.9 | 12      | 21.75   | 4080   | 6800    |
| CRUGC0000009 | 12                 | 42      | 19   | 10      | 24      | 5520   | 9600    |
| CRUGC0000013 | 25                 | 72      | 25.8 | 20      | 41      | 12880  | 18160   |
| CRUGC0000014 | 25                 | 72      | 25.8 | 25      | 43.5    | 12880  | 18160   |

### Wheels without pin - V groove



| Code         | Technical features |         |    |         |         |        |         |
|--------------|--------------------|---------|----|---------|---------|--------|---------|
|              | Di (mm)            | De (mm) | Sp | Dt (mm) | At (mm) | Cc (N) | Cco (N) |
| CRUGC0000018 | 7                  | 22      | 11 | 10      | 14.5    | 960    | 2720    |
| CRUGC0000022 | 8                  | 30      | 14 | 10      | 18.1    | 2160   | 5120    |
| CRUGC0000001 | 10                 | 30      | 14 | 10      | 18.1    | 2160   | 5120    |
| CRUGC0000010 | 15                 | 38      | 17 | 10      | 22.25   | 6000   | 9200    |
| CRUGC0000011 | 15                 | 41      | 20 | 20      | 28      | 6000   | 9200    |
| CRUGC0000012 | 17                 | 58      | 25 | 20      | 35      | 8000   | 14400   |

### Wheels without pin - cylindrical

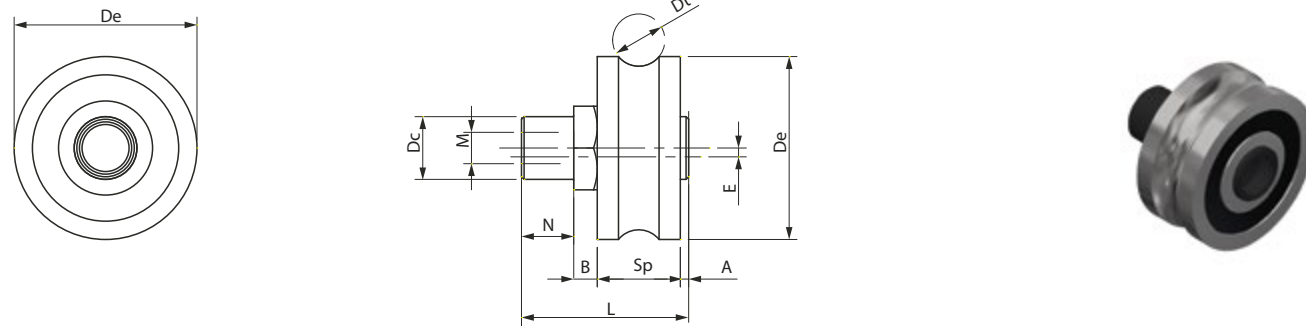


| Code         | Technical features |        |      |         |         |        |         |
|--------------|--------------------|--------|------|---------|---------|--------|---------|
|              | Di (mm)            | DE(mm) | Sp   | Dt (mm) | At (mm) | Cc (N) | Cco (N) |
| CCURR0000001 | 6                  | 19     | 11   | -       | -       | 2688   | 2352    |
| CCUSE0000008 | 12                 | 32     | 15.9 | -       | -       | 4080   | 6800    |

**Wheels with pin - profiled with F type thread**

Cr = Theoretical radial breaking load (N) - Crc = Recommended radial load (N)

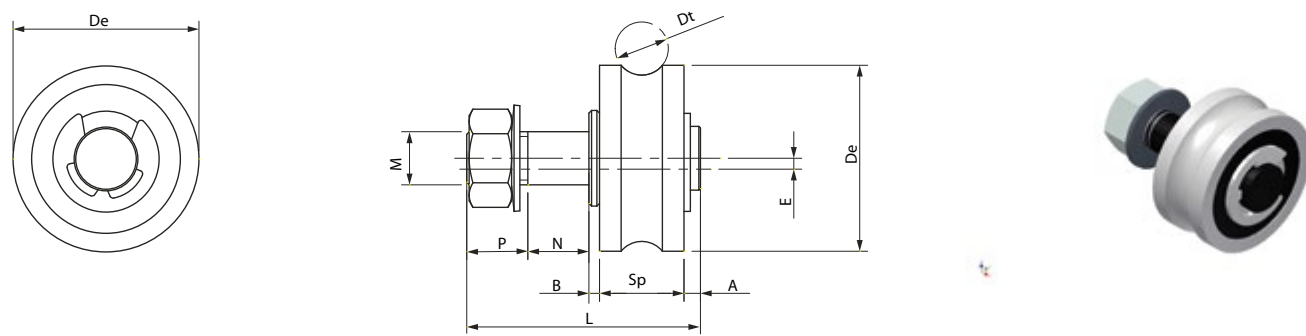
Ca = Theoretical axial breaking load (N) -Cac = Recommended axial load (N)



| Code               | Dimensions (mm) |    |      |    |     |     |     |      |   |      |    |              | Code wheel   | Code pin | Cr*    | Ca    | Crc*  | Cac |
|--------------------|-----------------|----|------|----|-----|-----|-----|------|---|------|----|--------------|--------------|----------|--------|-------|-------|-----|
|                    | Di              | De | Sp   | Dt | A   | B   | N   | L    | M | E    | Dc |              |              |          |        |       |       |     |
| <b>CONCENTRIC:</b> |                 |    |      |    |     |     |     |      |   |      |    |              |              |          |        |       |       |     |
| GRUGD0000026       | 5               | 16 | 8    | 4  | 0.2 | 1.6 | 5   | 14.8 | 4 | -    | 6  | CRUGC0000016 | DPERO0000025 | 712 N    | 400 N  | 71 N  | 40 N  |     |
| GRUGD0000042       | 8               | 24 | 11   | 6  | 0.4 | 2.5 | 5.8 | 19.7 | 5 | -    | 8  | CRUGC0000020 | DPERO0000008 | 1824 N   | 1200 N | 182 N | 120 N |     |
| GRUGD0000028       | 12              | 35 | 15.9 | 10 | 1.6 | 4.5 | 10  | 32   | 8 | -    | 12 | CRUGC0000004 | DPERO0000009 | 4080 N   | 2000 N | 408 N | 200 N |     |
| GRUGD0000069       | 12              | 42 | 19   | 10 | 3.9 | 3   | 10  | 35.9 | 8 | -    | 12 | CRUGC0000009 | DPERO0000011 | 5520 N   | 4000 N | 552 N | 400 N |     |
| <b>ECCENTRIC:</b>  |                 |    |      |    |     |     |     |      |   |      |    |              |              |          |        |       |       |     |
| GRUGD0000047       | 5               | 16 | 8    | 4  | 0.2 | 1.6 | 5   | 14.8 | 4 | 0.6  | 6  | CRUGC0000016 | DPERO0000059 | 712 N    | 400 N  | 71 N  | 40 N  |     |
| GRUGD0000063       | 8               | 24 | 11   | 6  | 0.4 | 2.5 | 5.8 | 19.7 | 5 | 0.5  | 8  | CRUGC0000020 | DPERO0000039 | 1824 N   | 1200 N | 182 N | 120 N |     |
| GRUGD0000049       | 12              | 35 | 15.9 | 10 | 1.6 | 4.5 | 10  | 32   | 8 | 0.5  | 12 | CRUGC0000004 | DPERO0000040 | 4080 N   | 2000 N | 408 N | 200 N |     |
| GRUGD0000070       | 12              | 42 | 19   | 10 | 3.9 | 3   | 10  | 35.9 | 8 | 0.75 | 12 | CRUGC0000009 | DPERO0000042 | 5520 N   | 4000 N | 552 N | 400 N |     |

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

**Wheels with pin - profiled with M type thread**



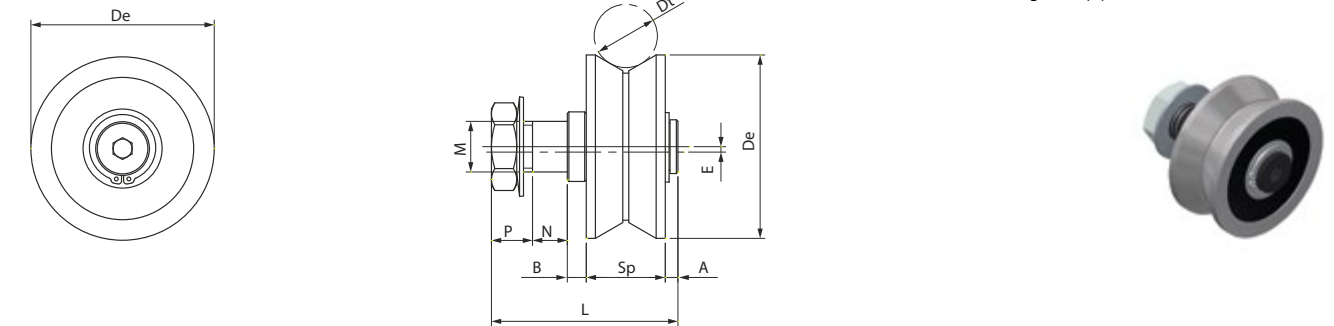
| Code               | Dimensions (mm) |    |      |    |     |   |     |     |      |    |      |              | Code wheel   | Code pin | Cr*    | Ca    | Crc*  | Cac |
|--------------------|-----------------|----|------|----|-----|---|-----|-----|------|----|------|--------------|--------------|----------|--------|-------|-------|-----|
|                    | Di              | De | Sp   | Dt | A   | B | N   | P   | L    | M  | E    |              |              |          |        |       |       |     |
| <b>CONCENTRIC:</b> |                 |    |      |    |     |   |     |     |      |    |      |              |              |          |        |       |       |     |
| GRUGD0000083       | 5               | 17 | 8    | 6  | 2.5 | 4 | 5   | 5.5 | 23   | 5  | -    | CRUGC0000017 | DPERO0000022 | 712 N    | 800 N  | 71 N  | 80 N  |     |
| GRUGD0000086       | 8               | 24 | 11   | 6  | 1.8 | 2 | 6   | 7   | 27.8 | 8  | -    | CRUGC0000020 | DPERO0000023 | 1824 N   | 2400 N | 182 N | 240 N |     |
| GRUGD0000029       | 5               | 17 | 8    | 6  | 2.5 | 4 | 2.5 | 5.5 | 19   | 5  | -    | CRUGC0000017 | DPERO0000079 | 712 N    | 800 N  | 71 N  | 80 N  |     |
| GRUGD0000045       | 12              | 35 | 15.9 | 10 | 3.1 | 2 | 12  | 11  | 44   | 10 | -    | CRUGC0000004 | DPERO0000024 | 4080 N   | 400 N  | 408 N | 40 N  |     |
| <b>ECCENTRIC:</b>  |                 |    |      |    |     |   |     |     |      |    |      |              |              |          |        |       |       |     |
| GRUGD0000084       | 5               | 17 | 8    | 6  | 2.5 | 4 | 5   | 5.5 | 23   | 5  | 0.5  | CRUGC0000017 | DPERO0000056 | 712 N    | 800 N  | 71 N  | 80 N  |     |
| GRUGD0000085       | 8               | 24 | 11   | 6  | 1.8 | 2 | 6   | 7   | 27.8 | 8  | 0.5  | CRUGC0000020 | DPERO0000057 | 1824 N   | 2400 N | 182 N | 240 N |     |
| GRUGD0000050       | 5               | 17 | 8    | 6  | 2.5 | 4 | 2.5 | 5.5 | 19   | 5  | 0.5  | CRUGC0000017 | DPERO0000080 | 712 N    | 800 N  | 71 N  | 80 N  |     |
| GRUGD0000066       | 12              | 35 | 15.9 | 10 | 3.1 | 2 | 12  | 11  | 44   | 10 | 0.75 | CRUGC0000004 | DPERO0000058 | 4080 N   | 400 N  | 408 N | 40 N  |     |

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

**Wheels with pin - normal type V groove**

Cr = Theoretical radial breaking load (N) - Crc = Recommended radial load (N)

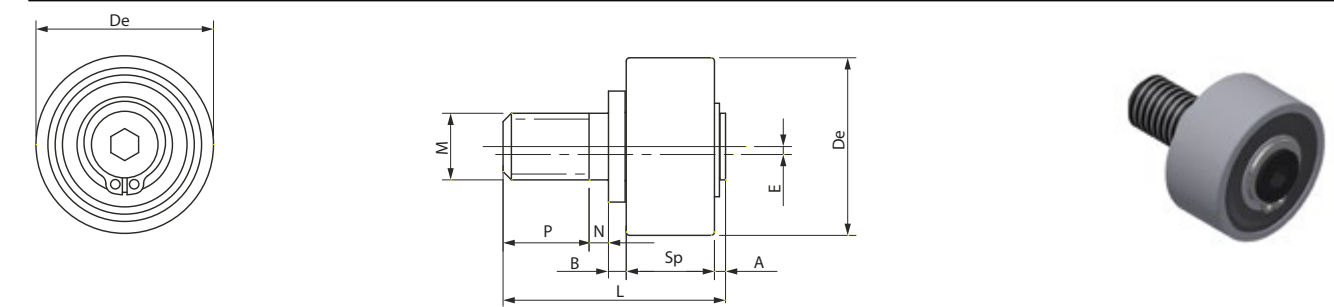
Ca = Theoretical axial breaking load (N) -Cac = Recommended axial load (N)



| Code               | Dimensions (mm) |    |    |    |     |     |     |     |      |    |     |              | Code wheel   | Code pin | Cr*    | Ca    | Crc*  | Cac |
|--------------------|-----------------|----|----|----|-----|-----|-----|-----|------|----|-----|--------------|--------------|----------|--------|-------|-------|-----|
|                    | Di              | De | Sp | Dt | A   | B   | N   | P   | L    | M  | E   |              |              |          |        |       |       |     |
| <b>CONCENTRIC:</b> |                 |    |    |    |     |     |     |     |      |    |     |              |              |          |        |       |       |     |
| GRUGD0000030       | 7               | 22 | 11 | 10 | 2.5 | 2.5 | 4   | 5.5 | 25.5 | 6  | -   | CRUGC0000018 | DPERO0000017 | 960 N    | 2080 N | 96 N  | 208 N |     |
| GRUGD0000031       | 7               | 22 | 11 | 10 | 1   | 2.5 | 2.5 | 7   | 24   | 6  | -   | CRUGC0000018 | DPERO0000068 | 960 N    | 1040 N | 96 N  | 104 N |     |
| GRUGD0000032       | 8               | 30 | 14 | 10 | 3   | 2   | 5   | 9   | 33   | 8  | -   | CRUGC0000022 | DPERO0000018 | 2160 N   | 2400 N | 216 N | 240 N |     |
| GRUGD0000033       | 10              | 38 | 18 | 10 | 2   | 2.5 | 4   | 15  | 41.4 | 10 | -   | CRUGC0000010 | DPERO0000019 | 6000 N   | 5520 N | 600 N | 552 N |     |
| GRUGD0000040       | 10              | 30 | 14 | 10 | 2   | 2   | 4.5 | 9.5 | 32   | 8  | -   | CRUGC0000001 | DPERO0000073 | 2160 N   | 1600 N | 216 N | 160 N |     |
| GRUGD0000035       | 15              | 41 | 20 | 20 | 4   | 3   | 6   | 13  | 46   | 12 | -   | CRUGC0000011 | DPERO0000020 | 6000 N   | 5520 N | 600 N | 552 N |     |
| GRUGD0000036       | 17              | 58 | 25 | 20 | 3   | 6   | 10  | 14  | 58   | 16 | -   | CRUGC0000012 | DPERO0000021 | 8000 N   | 6400 N | 800 N | 640 N |     |
| <b>ECCENTRIC:</b>  |                 |    |    |    |     |     |     |     |      |    |     |              |              |          |        |       |       |     |
| GRUGD0000052       | 7               | 22 | 11 | 10 | 2.5 | 2.5 | 4   | 5.5 | 25.5 | 6  | 1.5 | CRUGC0000018 | DPERO0000051 | 960 N    | 2080 N | 96 N  | 208 N |     |
| GRUGD0000051       | 7               | 22 | 11 | 10 | 1   | 2.5 | 2.5 | 7   | 24   | 6  | 1   | CRUGC0000018 | DPERO0000069 | 960 N    | 1040 N | 96 N  | 104 N |     |
| GRUGD0000053       | 8               | 30 | 14 | 10 | 3   | 2   | 5   | 9   | 33   | 8  | 1.5 | CRUGC0000022 | DPERO0000052 | 2160 N   | 2400 N | 216 N | 240 N |     |
| GRUGD0000054       | 10              | 38 | 18 | 10 | 2   | 2.5 | 4   | 15  | 41.4 | 10 | 1   | CRUGC0000010 | DPERO0000053 | 6000 N   | 5520 N | 600 N | 552 N |     |
| GRUGD0000061       | 10              | 30 | 14 | 10 | 2   | 2   | 4.5 | 9.5 | 32   | 8  | 1   | CRUGC0000001 | DPERO0000074 | 2160 N   | 1600 N | 216 N | 160 N |     |
| GRUGD0000056       | 15              | 41 | 20 | 20 | 4   | 3   | 6   | 13  | 46   | 12 | 2   | CRUGC0000011 | DPERO0000054 | 6000 N   | 5520 N | 600 N | 552 N |     |
| GRUGD0000057       | 17              | 58 | 25 | 20 | 3   | 6   | 10  | 14  | 58   | 16 | 1.5 | CRUGC0000012 | DPERO0000055 | 8000 N   | 6400 N | 800 N | 640 N |     |

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

**Wheels with pin - cylindrical**

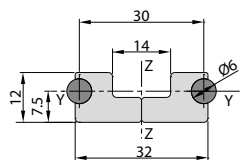


| Code               | Dimensions (mm) |    |      |    |     |     |     |    |      |    |     |              | Code wheel   | Code pin | Cr*    | Ca    | Crc*  | Cac |
|--------------------|-----------------|----|------|----|-----|-----|-----|----|------|----|-----|--------------|--------------|----------|--------|-------|-------|-----|
|                    | Di              | De | Sp   | Dt | A   | B   | N   | P  | L    | M  | E   |              |              |          |        |       |       |     |
| <b>CONCENTRIC:</b> |                 |    |      |    |     |     |     |    |      |    |     |              |              |          |        |       |       |     |
| GRUGD0000039       | 6               | 19 | 11   | -  | 1.8 | 1.7 | 4.5 | 10 | 29   | 8  | -   | CCURR0000001 | DPERO0000007 | 2688 N   | 1160 N | 269 N | 116 N |     |
| GRUGD0000037       | 12              | 32 | 15.9 | -  | 2.2 | 3   | 5   | 14 | 40.1 | 12 | -   | CCUSE0000008 | DPERO0000005 | 4080 N   | 4000 N | 408 N | 400 N |     |
| GRUGD0000038       | 12              | 32 | 15.9 | -  | 2.2 | 3   | 5   | 11 | 37.1 | 12 | -   | CCUSE0000008 | DPERO0000028 | 4080 N   | 4000 N | 408 N | 400 N |     |
| <b>ECCENTRIC:</b>  |                 |    |      |    |     |     |     |    |      |    |     |              |              |          |        |       |       |     |
| GRUGD0000060       | 6               | 19 | 11   | -  | 1.8 | 1.7 | 4.5 | 10 | 29   | 8  | 1   | CCURR0000001 | DPERO0000048 | 2688 N   | 1160 N | 269 N | 116 N |     |
| GRUGD0000058       | 12              | 32 | 15.9 | -  | 2.2 | 3   | 5   | 14 | 40.1 | 12 | 1.5 | CCUSE0000008 | DPERO0000037 | 4080 N   | 4000 N | 408 N | 400 N |     |
| GRUGD0000059       | 12              | 32 | 15.9 | -  | 2.2 | 3   | 5   | 11 | 37.1 | 12 | 1.5 | CCUSE0000008 | DPERO0000062 | 4080 N   | 4000 N | 408 N | 400 N |     |

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

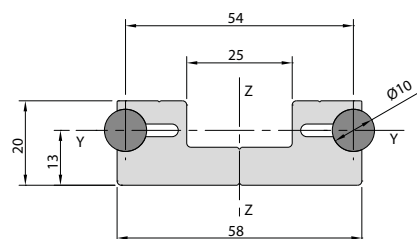


**GD6** BPRGD0000063



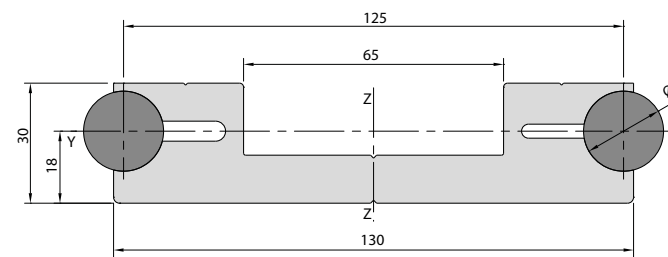
| Technical features             |                         |
|--------------------------------|-------------------------|
| Profile area                   | 315.46 mm <sup>2</sup>  |
| Sizes                          | Y 36.00 mm              |
|                                | Z 12.00 mm              |
| Moments of inertia             | Jy 0.35 cm <sup>4</sup> |
|                                | Jz 3.59 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.46 cm <sup>3</sup> |
|                                | Wz 2.40 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                 |
| Mass                           | 1.15 Kg/m               |
| Material                       |                         |
| ALLOY EN AW 6060               |                         |
| C50 Temp./Grind./Chrome plated |                         |

**GD10** BPRGD0000007



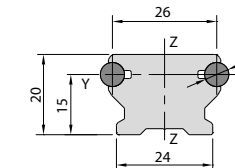
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 879.63 mm <sup>2</sup>   |
| Sizes                          | Y 64.00 mm               |
|                                | Z 20.00 mm               |
| Moments of inertia             | Jy 2.85 cm <sup>4</sup>  |
|                                | Jz 33.08 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 2.20 cm <sup>3</sup>  |
|                                | Wz 12.28 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                  |
| Mass                           | 3.19 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

**GDX20** BPRGD0000009



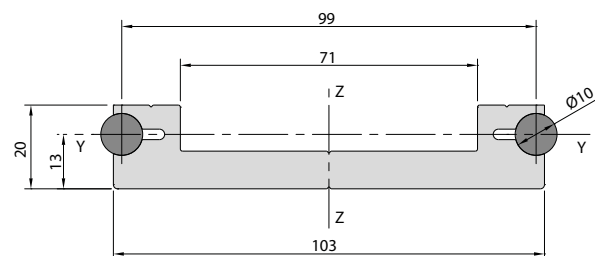
| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 2790.26 mm <sup>2</sup>   |
| Sizes                          | Y 145.00 mm               |
|                                | Z 30.00 mm                |
| Moments of inertia             | Jy 20.64 cm <sup>4</sup>  |
|                                | Jz 575.74 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 11.51 cm <sup>3</sup>  |
|                                | Wz 92.98 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                   |
| Mass                           | 10.87 Kg/m                |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |

**ACS32** BPRGD0000059



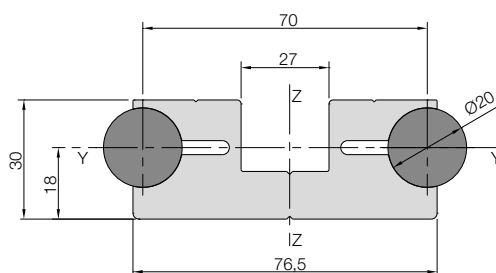
| Technical features             |                         |
|--------------------------------|-------------------------|
| Profile area                   | 479.77 mm <sup>2</sup>  |
| Sizes                          | Y 32.00 mm              |
|                                | Z 20.00 mm              |
| Moments of inertia             | Jy 1.48 cm <sup>4</sup> |
|                                | Jz 2.86 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 1.02 cm <sup>3</sup> |
|                                | Wz 1.91 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                 |
| Mass                           | 1.63 Kg/m               |
| Material                       |                         |
| ALLOY EN AW 6060               |                         |
| C50 Temp./Grind./Chrome plated |                         |

**GDX10** BPRGD0000065



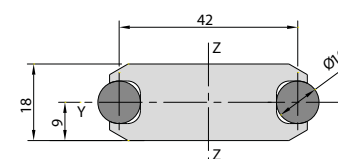
| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 1290.96 mm <sup>2</sup>   |
| Sizes                          | Y 109.00 mm               |
|                                | Z 20.00 mm                |
| Moments of inertia             | Jy 3.58 cm <sup>4</sup>   |
|                                | Jz 155.36 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 2.76 cm <sup>3</sup>   |
|                                | Wz 31.45 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                   |
| Mass                           | 4.31 Kg/m                 |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |

**GD20** BPRGD0000062



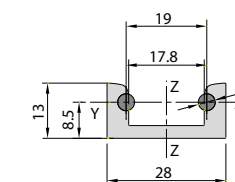
| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 2018.23 mm <sup>2</sup>   |
| Sizes                          | Y 90.00 mm                |
|                                | Z 30.00 mm                |
| Moments of inertia             | Jy 14.97 cm <sup>4</sup>  |
|                                | Jz 136.23 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 8.32 cm <sup>3</sup>   |
|                                | Wz 39.02 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                   |
| Mass                           | 8.70 Kg/m                 |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |

**ACS52** BPRGD0000058

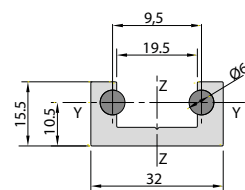


| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 849.83 mm <sup>2</sup>   |
| Sizes                          | Y 52.00 mm               |
|                                | Z 18.00 mm               |
| Moments of inertia             | Jy 2.13 cm <sup>4</sup>  |
|                                | Jz 16.09 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 2.36 cm <sup>3</sup>  |
|                                | Wz 6.13 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                  |
| Mass                           | 3.08 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

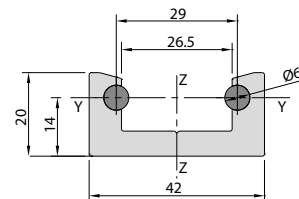
**IL28** BPRGD0000012



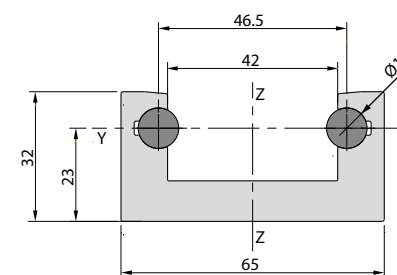
| Technical features             |                         |
|--------------------------------|-------------------------|
| Profile area                   | 189.60 mm <sup>2</sup>  |
| Sizes                          | Y 28.00 mm              |
|                                | Z 13.00 mm              |
| Moments of inertia             | Jy 0.27 cm <sup>4</sup> |
|                                | Jz 1.92 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.32 cm <sup>3</sup> |
|                                | Wz 1.37 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                 |
| Mass                           | 0.64 Kg/m               |
| Material                       |                         |
| ALLOY EN AW 6060               |                         |
| C50 Temp./Grind./Chrome plated |                         |

**IL32** BPRGD0000013


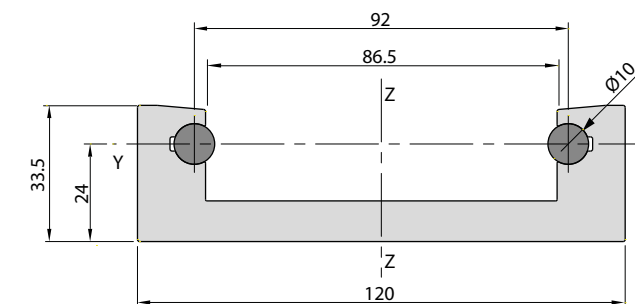
| Technical features             |                         |
|--------------------------------|-------------------------|
| Profile area                   | 297.67 mm <sup>2</sup>  |
| Sizes                          | Y 32.00 mm              |
|                                | Z 15.50 mm              |
| Moments of inertia             | Jy 0.62 cm <sup>4</sup> |
|                                | Jz 3.68 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.59 cm <sup>3</sup> |
|                                | Wz 2.30 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                 |
| Mass                           | 1.10 Kg/m               |
| Material                       |                         |
| ALLOY EN AW 6060               |                         |
| C50 Temp./Grind./Chrome plated |                         |

**IL42** BPRGD0000014


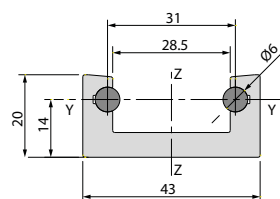
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 474.05 mm <sup>2</sup>   |
| Sizes                          | Y 42.00 mm               |
|                                | Z 20.00 mm               |
| Moments of inertia             | Jy 1.55 cm <sup>4</sup>  |
|                                | Jz 10.20 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 1.10 cm <sup>3</sup>  |
|                                | Wz 4.87 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                  |
| Mass                           | 1.58 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

**MR65** APRGD0000002


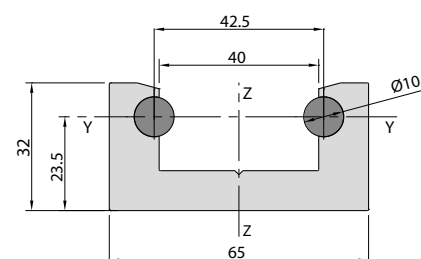
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 1180.27 mm <sup>2</sup>  |
| Sizes                          | Y 65.00 mm               |
|                                | Z 32.00 mm               |
| Moments of inertia             | Jy 10.09 cm <sup>4</sup> |
|                                | Jz 60.23 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 4.39 cm <sup>3</sup>  |
|                                | Wz 18.53 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                  |
| Mass                           | 4.00 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

**IL120** BPRGD0000010


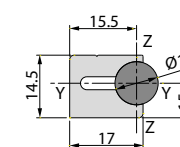
| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 1993.21 mm <sup>2</sup>   |
| Sizes                          | Y 120.00 mm               |
|                                | Z 33.50 mm                |
| Moments of inertia             | Jy 17.67 cm <sup>4</sup>  |
|                                | Jz 335.48 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 7.36 cm <sup>3</sup>   |
|                                | Wz 59.25 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                   |
| Mass                           | 6.19 Kg/m                 |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |

**IL43** BPRGD0000015


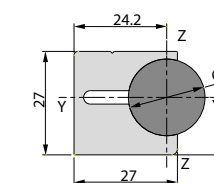
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 468.60 mm <sup>2</sup>   |
| Sizes                          | Y 43.00 mm               |
|                                | Z 20.00 mm               |
| Moments of inertia             | Jy 1.55 cm <sup>4</sup>  |
|                                | Jz 10.63 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 1.10 cm <sup>3</sup>  |
|                                | Wz 4.94 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                  |
| Mass                           | 1.56 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

**IL65** BPRGD0000017


| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 1241.99 mm <sup>2</sup>  |
| Sizes                          | Y 65.00 mm               |
|                                | Z 32.00 mm               |
| Moments of inertia             | Jy 10.73 cm <sup>4</sup> |
|                                | Jz 62.84 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 4.58 cm <sup>3</sup>  |
|                                | Wz 19.37 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                  |
| Mass                           | 4.18 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

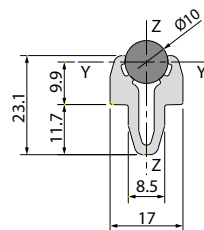
**GS10** BPRGD0000068


| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 247.20 mm <sup>2</sup>   |
| Sizes                          | Y 20.5 mm                |
|                                | Z 14.5 mm                |
| Moments of inertia             | Jy 0.438 cm <sup>4</sup> |
|                                | Jz 0.783 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 5.48 cm <sup>3</sup>  |
|                                | Wz 5.06 cm <sup>3</sup>  |
| Max. profile length            | 6000 mm                  |
| Mass                           | 1.08 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

**GS20** BPRGD0000069


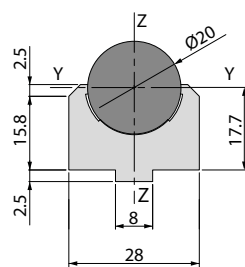
| Technical features             |                         |
|--------------------------------|-------------------------|
| Profile area                   | 790.04 mm <sup>2</sup>  |
| Sizes                          | Y 34.20 mm              |
|                                | Z 27.00 mm              |
| Moments of inertia             | Jy 4.60 cm <sup>4</sup> |
|                                | Jz 6.67 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 3.07 cm <sup>3</sup> |
|                                | Wz 2.76 cm <sup>3</sup> |
| Max. profile length            | 6000 mm                 |
| Mass                           | 3.76 Kg/m               |
| Material                       |                         |
| ALLOY EN AW 6060               |                         |
| C50 Temp./Grind./Chrome plated |                         |

Round bar containment profile Ø10 BPRGD0000032



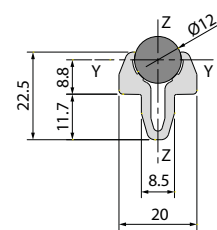
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 160.23 mm <sup>2</sup>   |
| Sizes                          | Y 17.00 mm               |
|                                | Z 26.70 mm               |
| Moments of inertia             | Jy 0.405 cm <sup>4</sup> |
|                                | Jz 0.524 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.46 cm <sup>3</sup>  |
|                                | Wz 0.53 cm <sup>3</sup>  |
| Max. profile length            | 5000 mm                  |
| Mass                           | 0.432 Kg/m               |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

Round bar containment profile Ø20 BPRGD0000102



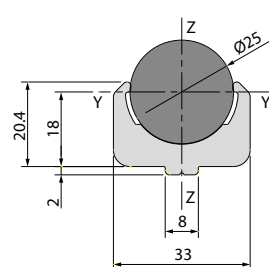
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 312 mm <sup>2</sup>      |
| Sizes                          | Y 28.00 mm               |
|                                | Z 28.00 mm               |
| Moments of inertia             | Jy 0.664 cm <sup>4</sup> |
|                                | Jz 2.559 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.368 cm <sup>3</sup> |
|                                | Wz 1.828 cm <sup>3</sup> |
| Max. profile length            | 6100 mm                  |
| Mass                           | 0.84 Kg/m                |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

Round bar containment profile Ø12 BPRGD0000020



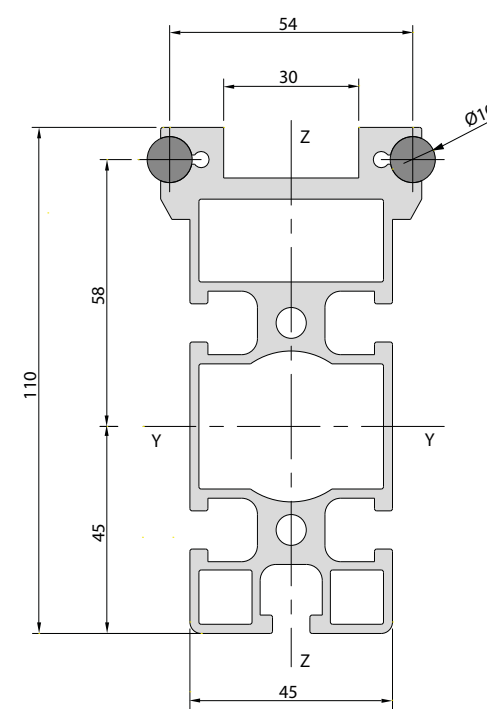
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 160 mm <sup>2</sup>      |
| Sizes                          | Y 20.00 mm               |
|                                | Z 26.50 mm               |
| Moments of inertia             | Jy 0.479 cm <sup>4</sup> |
|                                | Jz 0.548 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.390 cm <sup>3</sup> |
|                                | Wz 0.547 cm <sup>3</sup> |
| Max. profile length            | 6100 mm                  |
| Mass                           | 0.432 Kg/m               |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

Round bar containment profile Ø25 BPRGD0000022



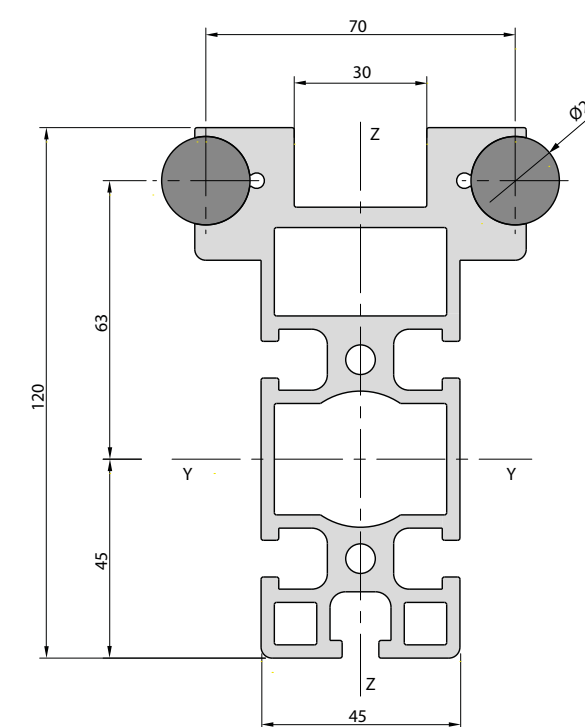
| Technical features             |                          |
|--------------------------------|--------------------------|
| Profile area                   | 348 mm <sup>2</sup>      |
| Sizes                          | Y 33.00 mm               |
|                                | Z 32.50 mm               |
| Moments of inertia             | Jy 0.924 cm <sup>4</sup> |
|                                | Jz 4.259 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 0.462 cm <sup>3</sup> |
|                                | Wz 2.585 cm <sup>3</sup> |
| Max. profile length            | 6100 mm                  |
| Mass                           | 0.939 Kg/m               |
| Material                       |                          |
| ALLOY EN AW 6060               |                          |
| C50 Temp./Grind./Chrome plated |                          |

GDR10 BPRGD0000027



| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 1715.11 mm <sup>2</sup>   |
| Sizes                          | Y 64.00 mm                |
|                                | Z 110.00 mm               |
| Moments of inertia             | Jy 219.23 cm <sup>4</sup> |
|                                | Jz 51.22 cm <sup>4</sup>  |
| Profile moment of resistance   | Wy 33.73 cm <sup>3</sup>  |
|                                | Wz 16.01 cm <sup>3</sup>  |
| Max. profile length            | 6040 mm                   |
| Mass                           | 5.46 Kg/m                 |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |

GDR20 BPRGD0000028



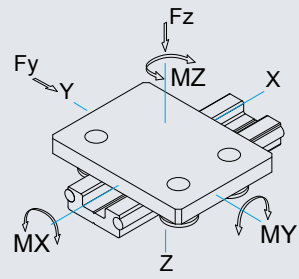
| Technical features             |                           |
|--------------------------------|---------------------------|
| Profile area                   | 2965.38 mm <sup>2</sup>   |
| Sizes                          | Y 90.00 mm                |
|                                | Z 120.00 mm               |
| Moments of inertia             | Jy 413.54 cm <sup>4</sup> |
|                                | Jz 160.62 cm <sup>4</sup> |
| Profile moment of resistance   | Wy 68.47 cm <sup>3</sup>  |
|                                | Wz 35.69 cm <sup>3</sup>  |
| Max. profile length            | 6040 mm                   |
| Mass                           | 11.27 Kg/m                |
| Material                       |                           |
| ALLOY EN AW 6060               |                           |
| C50 Temp./Grind./Chrome plated |                           |



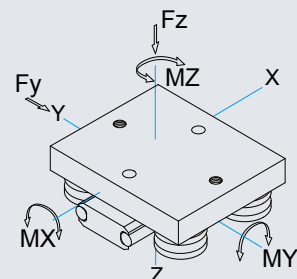
## LINEAR SYSTEMS WITH DRIVEN WHEEL

In this section there is the range of pre-assembled components for the realization of driven wheel linear systems, simple and economical solutions, with a good degree of precision.

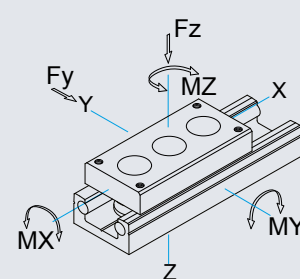
The basic components of the previous section are used in realizing linear systems, assembled on specific cars, sized for use on the relative profiles.



GD series - GDX series



GDS series



IL series

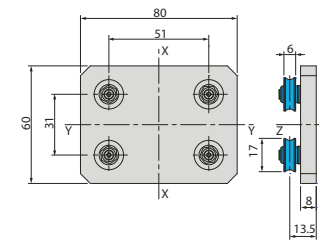
The linear systems consist of a Car with its Wheel and Profile.

**IMPORTANT:** Fy must only be applied to the side with the wheels with concentric pin. **Caution:** the Car Code includes the supply of a single assembled car (the guide profile is not included). When ordering, also specify the quantity and lengths of the type of profile.

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**

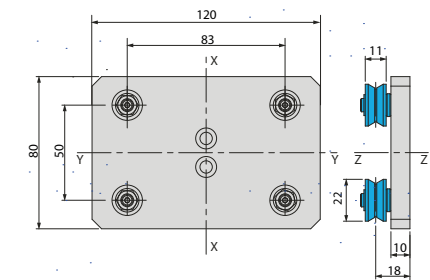
Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

### GD6



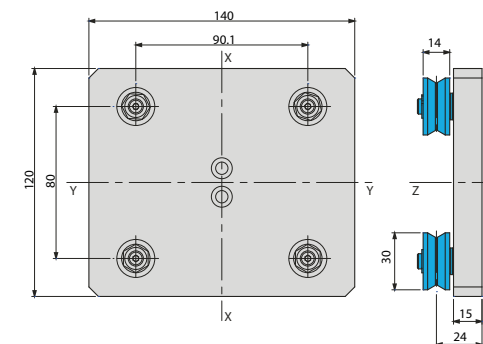
| Cod. Car GCAR0000088                    |          |        |
|---|----------|--------|
| Cod. Profile BPRGD0000063               |          |        |
| Cod. Wheels GRUGD0000029 - GRUGD0000050 |          |        |
| TECHNICAL FEATURES                      |          |        |
| Car mass                                | 0.145 Kg |        |
| Twisting moments                        | Mr       | Ml     |
| MX moment                               | 48 Nm    | 6.8 Nm |
| MY moment                               | 29 Nm    | 4.2 Nm |
| MZ moment                               | 34 Nm    | 5 Nm   |
| Applicable loads                        | Cr       | Cl     |
| FY load                                 | 1153 N   | 165 N  |
| FZ load                                 | 1879 N   | 268 N  |

### GD10A



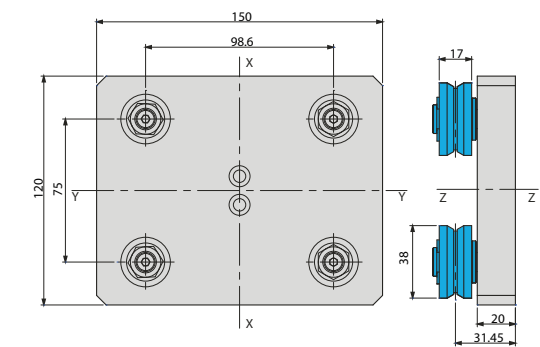
| Cod. Car GCAR00000196                    |         |         |
|--|---------|---------|
| Cod. Profile BPRGD0000007 - BPRGD0000027 |         |         |
| Cod. Wheels GRUGD0000030 - GRUGD0000052  |         |         |
| TECHNICAL FEATURES                       |         |         |
| Car mass                                 | 0.38 Kg |         |
| Twisting moments                         | Mr      | Ml      |
| MX moment                                | 105 Nm  | 15 Nm   |
| MY moment                                | 63 Nm   | 9 Nm    |
| MZ moment                                | 75 Nm   | 10.8 Nm |
| Applicable loads                         | Cr      | Cl      |
| FY load                                  | 1552 N  | 222 N   |
| FZ load                                  | 2534 N  | 362 N   |

### GD10B



| Cod. Car GCAR0000070                     |         |         |
|--|---------|---------|
| Cod. Profile BPRGD0000007 - BPRGD0000027 |         |         |
| Cod. Wheels GRUGD0000032 - GRUGD0000053  |         |         |
| TECHNICAL FEATURES                       |         |         |
| Car mass                                 | 0.97 Kg |         |
| Twisting moments                         | Mr      | Ml      |
| MX moment                                | 258 Nm  | 36.8 Nm |
| MY moment                                | 228 Nm  | 32.6 Nm |
| MZ moment                                | 211 Nm  | 30.2 Nm |
| Applicable loads                         | Cr      | Cl      |
| FY load                                  | 3500 N  | 500 N   |
| FZ load                                  | 5702 N  | 814 N   |

### GD10C

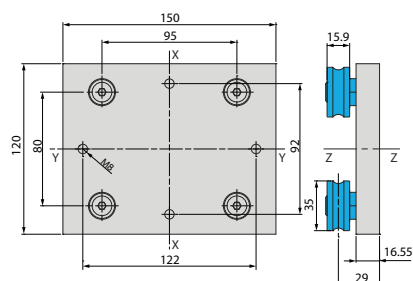


| Cod. Car GCAR00000131                    |          |          |
|--|----------|----------|
| Cod. Profile BPRGD0000007 - BPRGD0000027 |          |          |
| Cod. Wheels GRUGD0000033 - GRUGD0000054  |          |          |
| TECHNICAL FEATURES                       |          |          |
| Car mass                                 | 1.595 Kg |          |
| Twisting moments                         | Mr       | Ml       |
| MX moment                                | 718 Nm   | 102.6 Nm |
| MY moment                                | 546 Nm   | 78 Nm    |
| MZ moment                                | 602 Nm   | 86 Nm    |
| Applicable loads                         | Cr       | Cl       |
| FY load                                  | 9720 N   | 1388 N   |
| FZ load                                  | 14573 N  | 2082 N   |



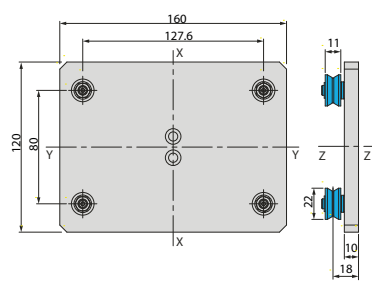
Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

**GD10C2**



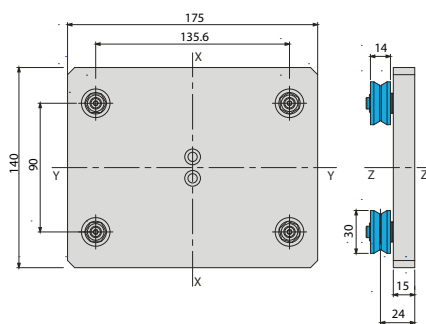
| Cod. Car GCAR0000025                     |         |         |
|--|---------|---------|
| Cod. Profile BPRGD0000007 - BPRGD0000027 |         |         |
| Cod. Wheels GRUGD0000028 - GRUGD0000049  |         |         |
| TECHNICAL FEATURES                       |         |         |
| Car mass                                 | 1.32 Kg |         |
| Twisting moments                         | Mr      | ML      |
| MX moment                                | 251 Nm  | 35.8 Nm |
| MY moment                                | 211 Nm  | 30.2 Nm |
| MZ moment                                | 411 Nm  | 58.7 Nm |
| Applicable loads                         | Cr      | Cl      |
| FY load                                  | 6609 N  | 944 N   |
| FZ load                                  | 5280 N  | 754 N   |

**GDX10A**



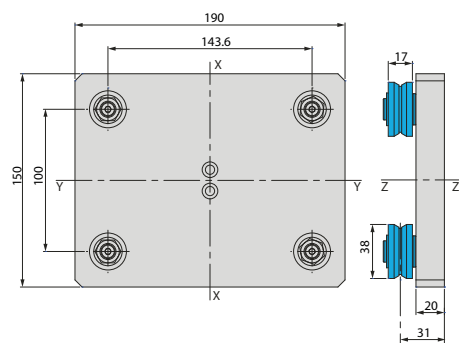
| Cod. Car GCAR00000198                   |         |         |
|---|---------|---------|
| Cod. Profile BPRGD0000065               |         |         |
| Cod. Wheels GRUGD0000030 - GRUGD0000052 |         |         |
| TECHNICAL FEATURES                      |         |         |
| Car mass                                | 0.64 Kg |         |
| Twisting moments                        | Mr      | ML      |
| MX moment                               | 161 Nm  | 23 Nm   |
| MY moment                               | 101 Nm  | 14.5 Nm |
| MZ moment                               | 117 Nm  | 16.7 Nm |
| Applicable loads                        | Cr      | Cl      |
| FY load                                 | 1555 N  | 222 N   |
| FZ load                                 | 2534 N  | 362 N   |

**GDX10B**



| Cod. Car GCAR00000197                   |          |         |
|---|----------|---------|
| Cod. Profile BPRGD0000065               |          |         |
| Cod. Wheels GRUGD0000032 - GRUGD0000053 |          |         |
| TECHNICAL FEATURES                      |          |         |
| Car mass                                | 1.285 Kg |         |
| Twisting moments                        | Mr       | ML      |
| MX moment                               | 386 Nm   | 55.2 Nm |
| MY moment                               | 256 Nm   | 36.7 Nm |
| MZ moment                               | 285 Nm   | 40.7 Nm |
| Applicable loads                        | Cr       | Cl      |
| FY load                                 | 3499 N   | 500 N   |
| FZ load                                 | 5702 N   | 814.6 N |

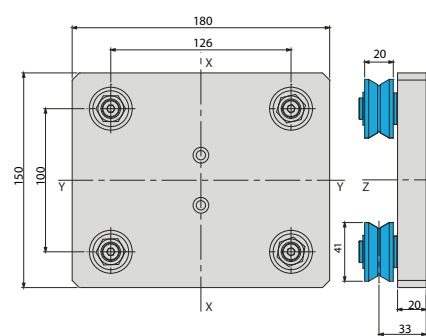
**GDX10C**



| Cod. Car GCAR00000199                   |          |          |
|---|----------|----------|
| Cod. Profile BPRGD0000065               |          |          |
| Cod. Wheels GRUGD0000033 - GRUGD0000054 |          |          |
| TECHNICAL FEATURES                      |          |          |
| Car mass                                | 2.165 Kg |          |
| Twisting moments                        | Mr       | ML       |
| MX moment                               | 1046 Nm  | 149.5 Nm |
| MY moment                               | 728 Nm   | 104 Nm   |
| MZ moment                               | 850 Nm   | 121.5 Nm |
| Applicable loads                        | Cr       | Cl       |
| FY load                                 | 9720 N   | 1388 N   |
| FZ load                                 | 14573 N  | 2082 N   |

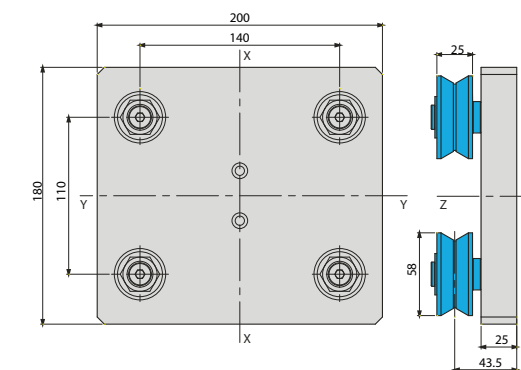
Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

**GD20A**



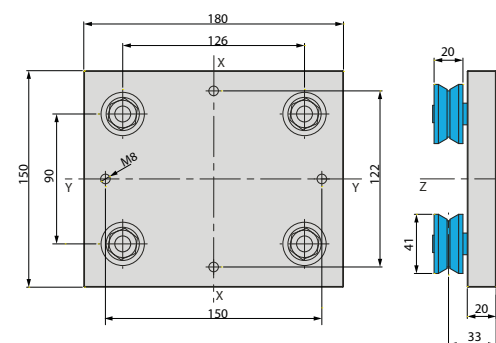
| Cod. Car GCAR00000135                    |          |        |
|--|----------|--------|
| Cod. Profile BPRGD0000062 - BPRGD0000028 |          |        |
| Cod. Wheels GRUGD0000035 - GRUGD0000056  |          |        |
| TECHNICAL FEATURES                       |          |        |
| Car mass                                 | 2.245 Kg |        |
| Twisting moments                         | Mr       | ML     |
| MX moment                                | 918 Nm   | 131 Nm |
| MY moment                                | 728 Nm   | 104 Nm |
| MZ moment                                | 782 Nm   | 112 Nm |
| Applicable loads                         | Cr       | Cl     |
| FY load                                  | 9720 N   | 1388 N |
| FZ load                                  | 14573 N  | 2082 N |

**GD20B**



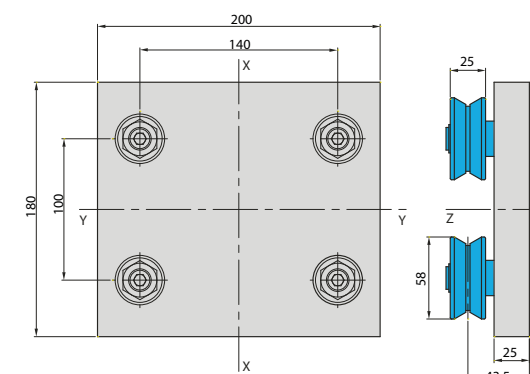
| Cod. Car GCAR00000160                    |          |        |
|--|----------|--------|
| Cod. Profile BPRGD0000062 - BPRGD0000028 |          |        |
| Cod. Wheels GRUGD0000036 - GRUGD0000057  |          |        |
| TECHNICAL FEATURES                       |          |        |
| Car mass                                 | 4.365 Kg |        |
| Twisting moments                         | Mr       | ML     |
| MX moment                                | 1182 Nm  | 169 Nm |
| MY moment                                | 929 Nm   | 133 Nm |
| MZ moment                                | 1153 Nm  | 165 Nm |
| Applicable loads                         | Cr       | Cl     |
| FY load                                  | 12960 N  | 1851 N |
| FZ load                                  | 16896 N  | 2414 N |

**GD20A2**



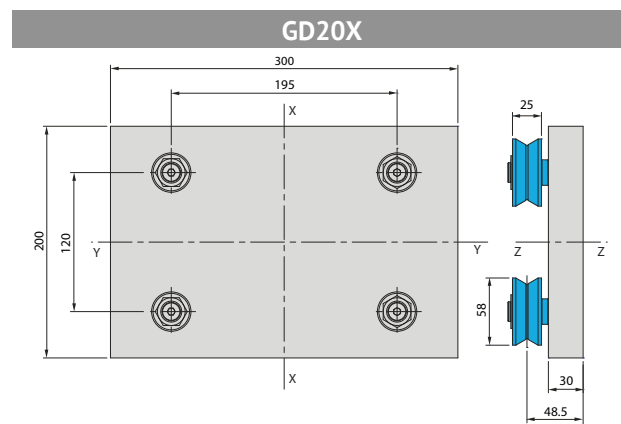
| Cod. Car GCAR00000029                    |          |          |
|--|----------|----------|
| Cod. Profile BPRGD0000062 - BPRGD0000028 |          |          |
| Cod. Wheels GRUGD0000035 - GRUGD0000056  |          |          |
| TECHNICAL FEATURES                       |          |          |
| Car mass                                 | 2.244 Kg |          |
| Twisting moments                         | Mr       | ML       |
| MX moment                                | 918 Nm   | 131 Nm   |
| MY moment                                | 656 Nm   | 93.7 Nm  |
| MZ moment                                | 752 Nm   | 107.5 Nm |
| Applicable loads                         | Cr       | Cl       |
| FY load                                  | 9720 N   | 1388 N   |
| FZ load                                  | 14573 N  | 2082 N   |

**GD20B2**

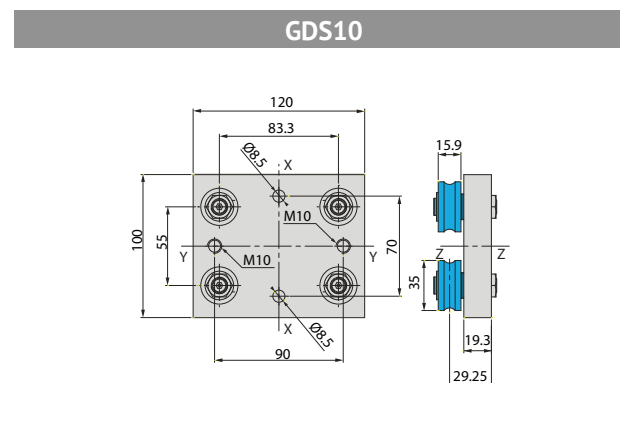


| Cod. Car GCAR00000027                    |         |        |
|--|---------|--------|
| Cod. Profile BPRGD0000062 - BPRGD0000028 |         |        |
| Cod. Wheels GRUGD0000036 - GRUGD0000057  |         |        |
| TECHNICAL FEATURES                       |         |        |
| Car mass                                 | 4.35 Kg |        |
| Twisting moments                         | Mr      | ML     |
| MX moment                                | 1182 Nm | 169 Nm |
| MY moment                                | 845 Nm  | 120 Nm |
| MZ moment                                | 1114 Nm | 159 Nm |
| Applicable loads                         | Cr      | Cl     |
| FY load                                  | 12960 N | 1851 N |
| FZ load                                  | 16896 N | 2414 N |

Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

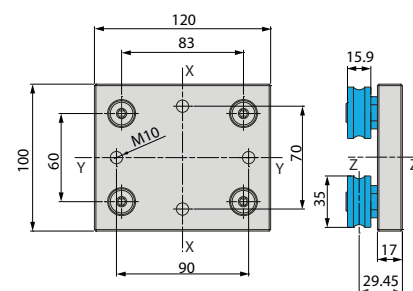


| Cod. Car GCAR00000200                   |          |        |
|---|----------|--------|
| Cod. Profile BPRGD0000009               |          |        |
| Cod. Wheels GRUGD0000036 - GRUGD0000057 |          |        |
| TECHNICAL FEATURES                      |          |        |
| Car mass                                | 6.765 Kg |        |
| Twisting moments                        | Mr       | Ml     |
| MX moment                               | 1647 Nm  | 235 Nm |
| MY moment                               | 1014 Nm  | 145 Nm |
| MZ moment                               | 1484 Nm  | 212 Nm |
| Applicable loads                        | Cr       | Cl     |
| FY load                                 | 12960 N  | 1851 N |
| FZ load                                 | 16896 N  | 2414 N |



| Cod. Car GCAR00000240                   |          |         |
|---|----------|---------|
| Cod. Profile BPRGD0000058               |          |         |
| Cod. Wheels GRUGD0000045 - GRUGD0000066 |          |         |
| TECHNICAL FEATURES                      |          |         |
| Car mass                                | 1.135 Kg |         |
| Twisting moments                        | Mr       | Ml      |
| MX moment                               | 440 Nm   | 63 Nm   |
| MY moment                               | 290 Nm   | 41.5 Nm |
| MZ moment                               | 330 Nm   | 47.2 Nm |
| Applicable loads                        | Cr       | Cl      |
| FY load                                 | 6609 N   | 944 N   |
| FZ load                                 | 10560 N  | 1508 N  |

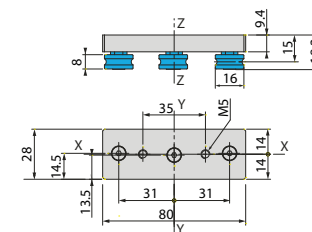
**GDS102**



| Cod. Car GCAR00000030                   |         |         |
|---|---------|---------|
| Cod. Profile BPRGD0000058               |         |         |
| Cod. Wheels GRUGD0000028 - GRUGD0000049 |         |         |
| TECHNICAL FEATURES                      |         |         |
| Car mass                                | 1.06 Kg |         |
| Twisting moments                        | Mr      | Ml      |
| MX moment                               | 219 Nm  | 31.3 Nm |
| MY moment                               | 158 Nm  | 22.6 Nm |
| MZ moment                               | 338 Nm  | 48.3 Nm |
| Applicable loads                        | Cr      | Cl      |
| FY load                                 | 6609 N  | 944 N   |
| FZ load                                 | 5280 N  | 754 N   |

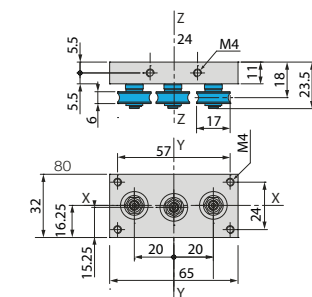
Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

**IL28/3**



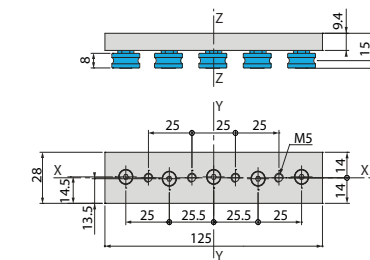
| Cod. Car GCAR00000034                   |          |        |
|---|----------|--------|
| Cod. Profile BPRGD0000012               |          |        |
| Cod. Wheels GRUGD0000026 - GRUGD0000047 |          |        |
| TECHNICAL FEATURES                      |          |        |
| Car mass                                | 0.058 Kg |        |
| Twisting moments                        | Mr       | Ml     |
| MX moment                               | 9.7 Nm   | 1.4 Nm |
| MY moment                               | 20 Nm    | 2.9 Nm |
| MZ moment                               | 18 Nm    | 2.6 Nm |
| Applicable loads                        | Cr       | Cl     |
| FY load                                 | 1153 N   | 165 N  |
| FZ load                                 | 864 N    | 123 N  |

**IL 32/3**



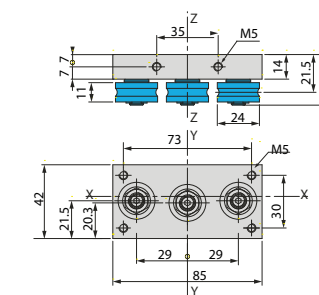
| Cod. Car GCAR00000090                   |         |        |
|---|---------|--------|
| Cod. Profile BPRGD0000013               |         |        |
| Cod. Wheels GRUGD0000083 - GRUGD0000084 |         |        |
| TECHNICAL FEATURES                      |         |        |
| Car mass                                | 0.1 Kg  |        |
| Twisting moments                        | Mr      | Ml     |
| MX moment                               | 18 Nm   | 2.6 Nm |
| MY moment                               | 23 Nm   | 3.3 Nm |
| MZ moment                               | 11.5 Nm | 1.6 Nm |
| Applicable loads                        | Cr      | Cl     |
| FY load                                 | 1153 N  | 165 N  |
| FZ load                                 | 1538 N  | 220 N  |

**IL28/5**



| Cod. Car GCAR00000033                   |          |        |
|---|----------|--------|
| Cod. Profile BPRGD0000012               |          |        |
| Cod. Wheels GRUGD0000026 - GRUGD0000047 |          |        |
| TECHNICAL FEATURES                      |          |        |
| Car mass                                | 0.155 Kg |        |
| Twisting moments                        | Mr       | Ml     |
| MX moment                               | 15.8 Nm  | 2.3 Nm |
| MY moment                               | 33 Nm    | 4.7 Nm |
| MZ moment                               | 44 Nm    | 6.3 Nm |
| Applicable loads                        | Cr       | Cl     |
| FY load                                 | 1538 N   | 220 N  |
| FZ load                                 | 1220 N   | 174 N  |

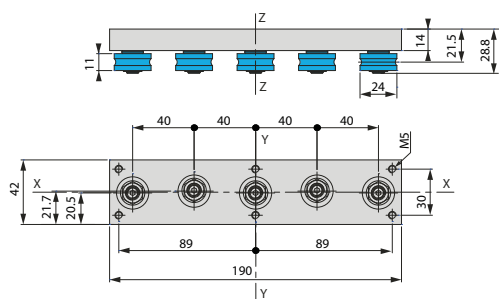
**IL 42/3**



| Cod. Car GCAR00000093                   |         |         |
|---|---------|---------|
| Cod. Profile BPRGD0000014               |         |         |
| Cod. Wheels GRUGD0000086 - GRUGD0000085 |         |         |
| TECHNICAL FEATURES                      |         |         |
| Car mass                                | 0.26 Kg |         |
| Twisting moments                        | Mr      | Ml      |
| MX moment                               | 68 Nm   | 9.7 Nm  |
| MY moment                               | 85 Nm   | 12.2 Nm |
| MZ moment                               | 43 Nm   | 6.1 Nm  |
| Applicable loads                        | Cr      | Cl      |
| FY load                                 | 2955 N  | 422 N   |
| FZ load                                 | 3940 N  | 563 N   |

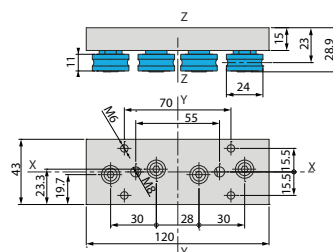
Mr = Theoretical breaking point (N) - ML = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

IL 42/5



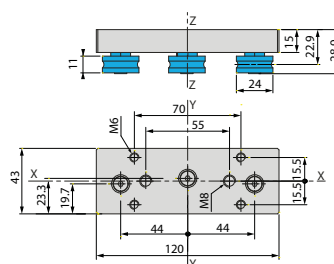
|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000066                    |           |           |
| Cod. Profile BPRGD0000014               |           |           |
| Cod. Wheels GRUGD0000086 - GRUGD0000085 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.51 Kg   |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 111 Nm    | 15.8 Nm   |
| MY moment                               | 236 Nm    | 34 Nm     |
| MZ moment                               | 177 Nm    | 25.3 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 3940 N    | 563 N     |
| FZ load                                 | 5563 N    | 795 N     |

IL 43/4



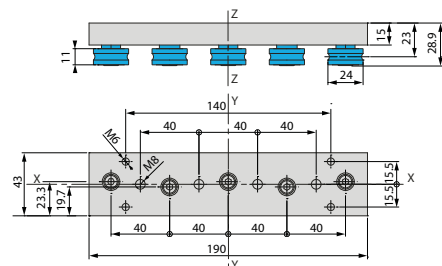
|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000041                    |           |           |
| Cod. Profile BPRGD0000015               |           |           |
| Cod. Wheels GRUGD0000042 - GRUGD0000063 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.33 Kg   |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 79 Nm     | 11.3 Nm   |
| MY moment                               | 85 Nm     | 12.2 Nm   |
| MZ moment                               | 130 Nm    | 18.6 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 2955 N    | 422 N     |
| FZ load                                 | 3168 N    | 452 N     |

IL 43/3



|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000036                    |           |           |
| Cod. Profile BPRGD0000015               |           |           |
| Cod. Wheels GRUGD0000042 - GRUGD0000063 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.3 Kg    |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 48 Nm     | 6.9 Nm    |
| MY moment                               | 85 Nm     | 12.2 Nm   |
| MZ moment                               | 65 Nm     | 9.3 Nm    |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 2955 N    | 422 N     |
| FZ load                                 | 2592 N    | 370 N     |

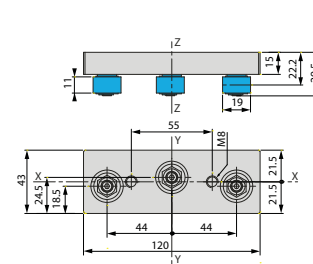
IL 43/5



|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000042                    |           |           |
| Cod. Profile BPRGD0000015               |           |           |
| Cod. Wheels GRUGD0000042 - GRUGD0000063 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.48 Kg   |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 79 Nm     | 11.3 Nm   |
| MY moment                               | 155 Nm    | 22.2 Nm   |
| MZ moment                               | 177 Nm    | 25.3 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 3940 N    | 563 N     |
| FZ load                                 | 3660 N    | 523 N     |

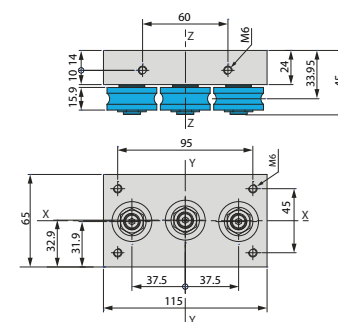
Mr = Theoretical breaking point (N) - ML = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

IL43C/3



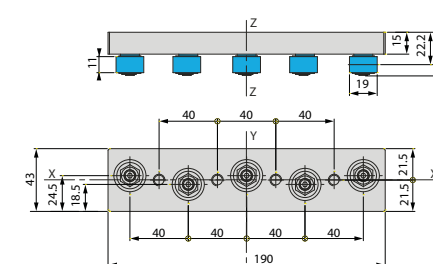
|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000056                    |           |           |
| Cod. Profile BPRGD0000015               |           |           |
| Cod. Wheels GRUGD0000039 - GRUGD0000060 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.296 Kg  |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 47 Nm     | 6.7 Nm    |
| MY moment                               | 0 Nm      | 0 Nm      |
| MZ moment                               | 96 Nm     | 13.7 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 4354 N    | 622 N     |
| FZ load                                 | 0 N       | 0 N       |

IL 65/3



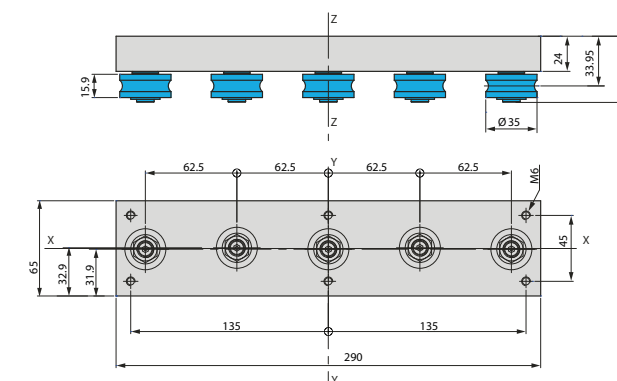
|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000094                    |           |           |
| Cod. Profile BPRGD0000017               |           |           |
| Cod. Wheels GRUGD0000045 - GRUGD0000066 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.845 Kg  |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 210 Nm    | 30 Nm     |
| MY moment                               | 243 Nm    | 34.7 Nm   |
| MZ moment                               | 124 Nm    | 17.7 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 6609 N    | 944 N     |
| FZ load                                 | 8640 N    | 1234 N    |

IL43C/5



|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR00000214                   |           |           |
| Cod. Profile BPRGD0000015               |           |           |
| Cod. Wheels GRUGD0000039 - GRUGD0000060 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 0.48 Kg   |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 77 Nm     | 10.9 Nm   |
| MY moment                               | 0 Nm      | 0 Nm      |
| MZ moment                               | 261 Nm    | 37.3 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 5806 N    | 829 N     |
| FZ load                                 | 0 N       | 0 N       |

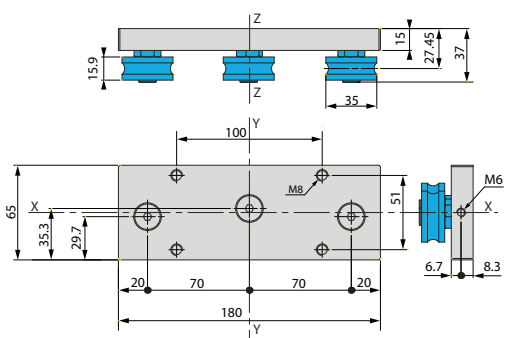
IL 65/5



|   |           |           |
|---|-----------|-----------|
| Cod. Car GCAR0000095                    |           |           |
| Cod. Profile BPRGD0000017               |           |           |
| Cod. Wheels GRUGD0000045 - GRUGD0000066 |           |           |
| <b>TECHNICAL FEATURES</b>               |           |           |
| Car mass                                | 1.83 Kg   |           |
| <b>Twisting moments</b>                 | <b>Mr</b> | <b>ML</b> |
| MX moment                               | 343 Nm    | 49 Nm     |
| MY moment                               | 810 Nm    | 116 Nm    |
| MZ moment                               | 620 Nm    | 88.5 Nm   |
| <b>Applicable loads</b>                 | <b>Cr</b> | <b>Cl</b> |
| FY load                                 | 8813 N    | 1259 N    |
| FZ load                                 | 12200 N   | 1743 N    |

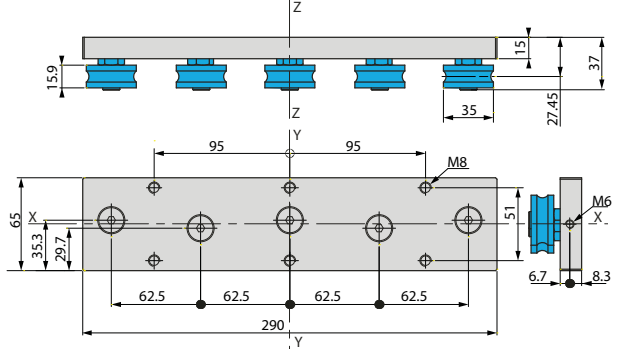
Mr = Theoretical breaking point (N) - Ml = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

**MR65/3**



| Cod. Car GCAR00000049                   |         |         |
|---|---------|---------|
| Cod. Profile APRGD0000002               |         |         |
| Cod. Wheels GRUGD0000028 - GRUGD0000049 |         |         |
| TECHNICAL FEATURES                      |         |         |
| Car mass                                | 0.83 Kg |         |
| Twisting moments                        | Mr      | Ml      |
| MX moment                               | 118 Nm  | 17 Nm   |
| MY moment                               | 227 Nm  | 32.4 Nm |
| MZ moment                               | 231 Nm  | 33 Nm   |
| Applicable loads                        | Cr      | Cl      |
| FY load                                 | 6609 N  | 944 N   |
| FZ load                                 | 4320 N  | 617 N   |

**MR65/5**



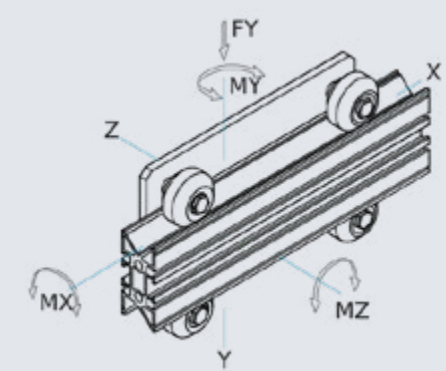
| Cod. Car GCAR00000059                   |         |         |
|---|---------|---------|
| Cod. Profile APRGD0000002               |         |         |
| Cod. Wheels GRUGD0000028 - GRUGD0000049 |         |         |
| TECHNICAL FEATURES                      |         |         |
| Car mass                                | 1.41 Kg |         |
| Twisting moments                        | Mr      | Ml      |
| MX moment                               | 193 Nm  | 27.5 Nm |
| MY moment                               | 405 Nm  | 58 Nm   |
| MZ moment                               | 620 Nm  | 88.5 Nm |
| Applicable loads                        | Cr      | Cl      |
| FY load                                 | 8813 N  | 1259 N  |
| FZ load                                 | 6100 N  | 871 N   |



## LINEAR MODULES MONORAIL and MONORAIL PLUS

The Monorails are self-supporting monorail guides sliding through delrin wheels: which allow high sliding speeds and good positioning accuracy.

They are among the simplest and cheapest motorized sliding systems and/or easily operated, applicable even in harsh environments.

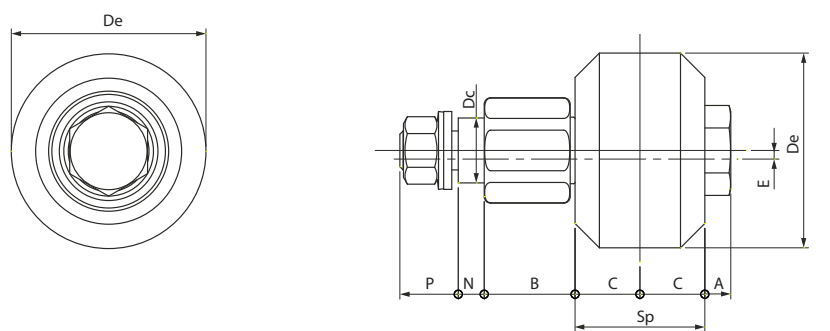


**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**

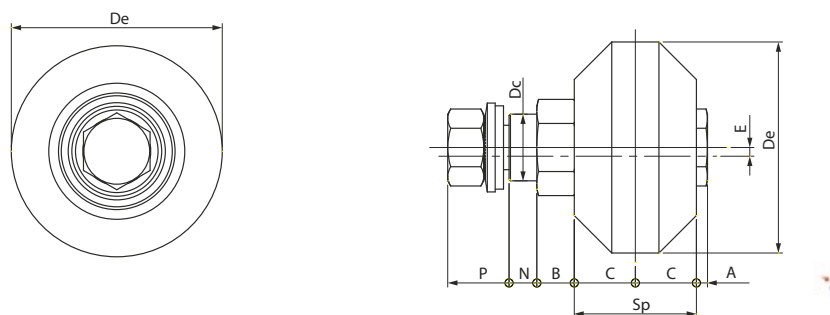


**Monorail wheels**

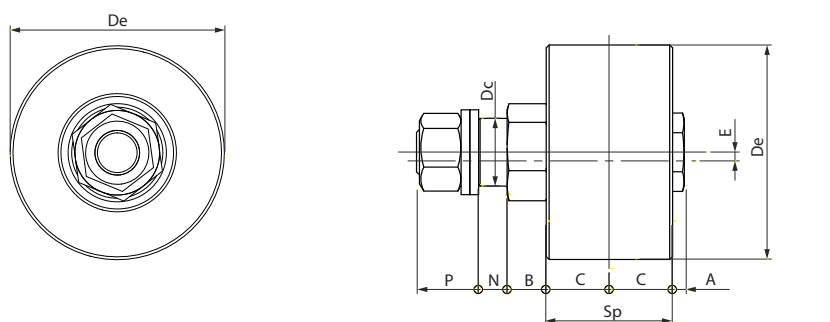
Fr = Radial load (N) - Fa = Axial load (N)



| Code               | Dimensions (mm) |    |    |   |    |    |   |    |   |    | Fr (N) | Fa (N) |
|--------------------|-----------------|----|----|---|----|----|---|----|---|----|--------|--------|
|                    | Dc              | De | Sp | A | B  | C  | N | P  | E | M  |        |        |
| <b>CONCENTRIC:</b> |                 |    |    |   |    |    |   |    |   |    |        |        |
| GRUGD0000074       | 20              | 60 | 40 | 8 | 28 | 20 | 8 | 18 | - | 12 | 550    | 137.5  |
| GRUGD0000075       | 20              | 60 | 40 | 8 | 28 | 20 | 8 | 23 | - | 12 | 550    | 137.5  |
| <b>ECCENTRIC:</b>  |                 |    |    |   |    |    |   |    |   |    |        |        |
| GRUGD0000077       | 20              | 60 | 40 | 8 | 28 | 20 | 8 | 18 | 2 | 12 | 550    | 137.5  |
| GRUGD0000078       | 20              | 60 | 40 | 8 | 28 | 20 | 8 | 23 | 2 | 12 | 550    | 137.5  |

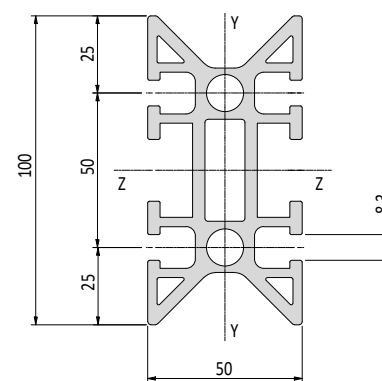


| Code               | Dimensions (mm) |    |    |   |      |    |    |      |      |    | Fr (N) | Fa (N) |
|--------------------|-----------------|----|----|---|------|----|----|------|------|----|--------|--------|
|                    | Dc              | De | Sp | A | B    | C  | N  | P    | E    | M  |        |        |
| <b>CONCENTRIC:</b> |                 |    |    |   |      |    |    |      |      |    |        |        |
| GRUGD0000080       | 24              | 76 | 44 | 4 | 13.5 | 22 | 10 | 21.5 | -    | 16 | 1000   | 250    |
| <b>ECCENTRIC:</b>  |                 |    |    |   |      |    |    |      |      |    |        |        |
| GRUGD0000081       | 24              | 76 | 44 | 4 | 13.5 | 22 | 10 | 21.5 | 1.75 | 16 | 1000   | 250    |

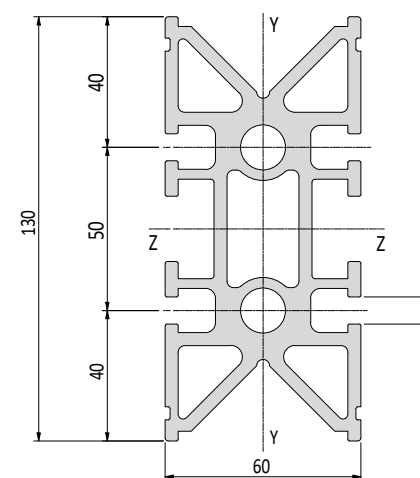


| Code               | Dimensions (mm) |    |    |   |      |    |    |      |      |    | Fr (N) | Fa (N) |
|--------------------|-----------------|----|----|---|------|----|----|------|------|----|--------|--------|
|                    | Dc              | De | Sp | A | B    | C  | N  | P    | E    | M  |        |        |
| <b>CONCENTRIC:</b> |                 |    |    |   |      |    |    |      |      |    |        |        |
| GRUGD0000090       | 24              | 76 | 44 | 4 | 13.5 | 22 | 10 | 21.5 | -    | 16 | 1000   | 250    |
| <b>ECCENTRIC:</b>  |                 |    |    |   |      |    |    |      |      |    |        |        |
| GRUGD0000091       | 24              | 76 | 44 | 4 | 13.5 | 22 | 10 | 21.5 | 1.75 | 16 | 1000   | 250    |

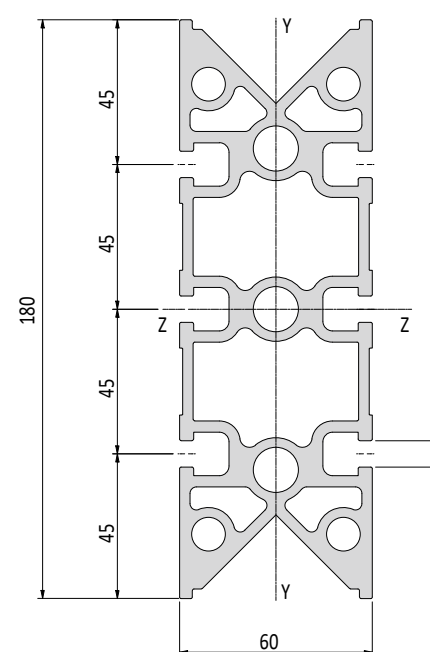
**Profilo con guida a V 90° BPRGD0000023**



**Profile with 90° V guide BPRGD0000025**



**Profile with 90° V guide BPRGD0000026**

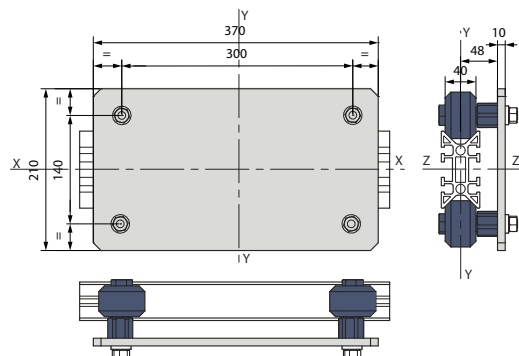


| Technical features            |                         |
|-------------------------------|-------------------------|
| Profile area                  | 1783 mm <sup>2</sup>    |
| Sizes                         | Y 50 mm                 |
|                               | Z 100 mm                |
| Moments of inertia            | Jy 143 cm <sup>4</sup>  |
|                               | Jz 34.8 cm <sup>4</sup> |
| Profile modulus of resilience | Wy 28.6 cm <sup>3</sup> |
|                               | Wz 13.9 cm <sup>3</sup> |
| Max. profile length           | 6000 mm                 |
| Mass                          | 4.64 Kg/m               |
| Material                      |                         |
| ALLOY EN AW 6060              |                         |

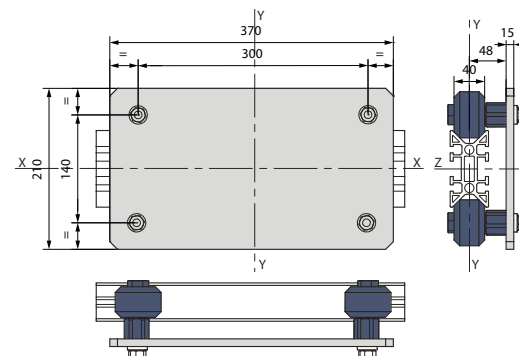
| Technical features            |                        |
|-------------------------------|------------------------|
| Profile area                  | 2979 mm <sup>2</sup>   |
| Sizes                         | Y 60 mm                |
|                               | Z 130 mm               |
| Moments of inertia            | Jy 358 cm <sup>4</sup> |
|                               | Jz 84 cm <sup>4</sup>  |
| Profile modulus of resilience | Wy 55 cm <sup>3</sup>  |
|                               | Wz 28 cm <sup>3</sup>  |
| Max. profile length           | 6000 mm                |
| Mass                          | 7.49 Kg/m              |
| Material                      |                        |
| ALLOY EN AW 6060              |                        |

| Technical features            |                           |
|-------------------------------|---------------------------|
| Profile area                  | 3726 mm <sup>2</sup>      |
| Sizes                         | Y 60 mm                   |
|                               | Z 180 mm                  |
| Moments of inertia            | Jy 1005.1 cm <sup>4</sup> |
|                               | Jz 125.7 cm <sup>4</sup>  |
| Profile modulus of resilience | Wy 111.7 cm <sup>3</sup>  |
|                               | Wz 42 cm <sup>3</sup>     |
| Max. profile length           | 6000 / 7000 mm            |
| Mass                          | 10.09 Kg/m                |
| Material                      |                           |
| ALLOY EN AW 6060              |                           |

**MONORAIL100 thk 10**



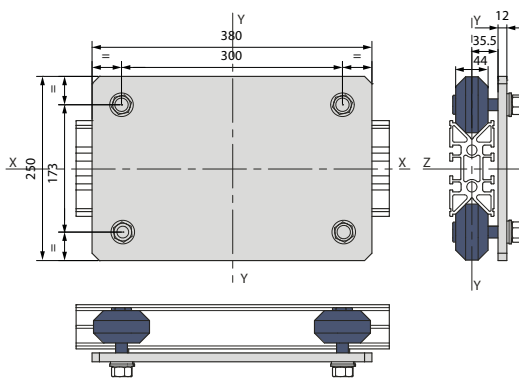
**MONORAIL100 thk 15**



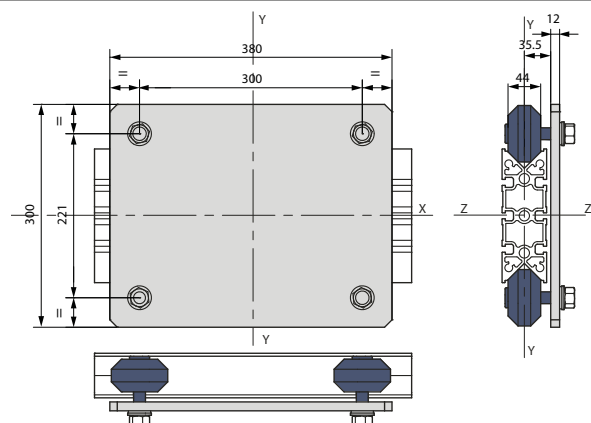
|  |         |
|--|---------|
| Cod. Car GCAR0000099                   |         |
| Cod. Profile BPRGD0000023              |         |
| Cod. Wheel GRUGD0000074 - GRUGD0000077 |         |
| <b>Technical features</b>              |         |
| Car mass                               | 4.14 Kg |
| <b>Allowable twisting moments</b>      |         |
| MX moment                              | 108 Nm  |
| MY moment                              | 165 Nm  |
| MZ moment                              | 31.8 Nm |
| <b>Maximum applicable loads</b>        |         |
| FY max dynamic load                    | 1100 N  |
| FY max static load                     | 720 N   |

|  |         |
|--|---------|
| Cod. Car GCAR00000260                  |         |
| Cod. Profile BPRGD0000023              |         |
| Cod. Wheel GRUGD0000075 - GRUGD0000078 |         |
| <b>Technical features</b>              |         |
| Car mass                               | 5.2 Kg  |
| <b>Allowable twisting moments</b>      |         |
| MX moment                              | 108 Nm  |
| MY moment                              | 165 Nm  |
| MZ moment                              | 31.8 Nm |
| <b>Maximum applicable loads</b>        |         |
| FY max dynamic load                    | 1100 N  |
| FY max static load                     | 720 N   |

**MONORAIL130**



**MONORAIL180**

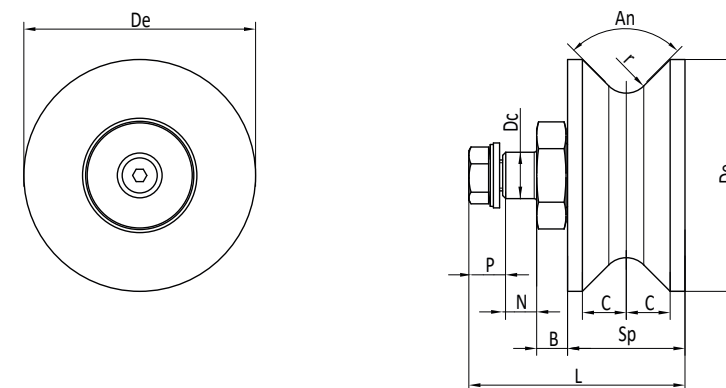


|  |         |
|--|---------|
| Cod. Car GCAR00000101                  |         |
| Cod. Profile BPRGD0000025              |         |
| Cod. Wheel GRUGD0000080 - GRUGD0000081 |         |
| <b>Technical features</b>              |         |
| Car mass                               | 5.47 Kg |
| <b>Allowable twisting moments</b>      |         |
| MX moment                              | 150 Nm  |
| MY moment                              | 300 Nm  |
| MZ moment                              | 55 Nm   |
| <b>Maximum applicable loads</b>        |         |
| FY max dynamic load                    | 2000 N  |
| FY max static load                     | 1000 N  |

|  |        |
|--|--------|
| Cod. Car GCAR00000102                  |        |
| Cod. Profile BPRGD0000026              |        |
| Cod. Wheel GRUGD0000080 - GRUGD0000081 |        |
| <b>Technical features</b>              |        |
| Car mass                               | 6.1 Kg |
| <b>Allowable twisting moments</b>      |        |
| MX moment                              | 150 Nm |
| MY moment                              | 300 Nm |
| MZ moment                              | 79 Nm  |
| <b>Maximum applicable loads</b>        |        |
| FY max dynamic load                    | 2000 N |
| FY max static load                     | 1000 N |

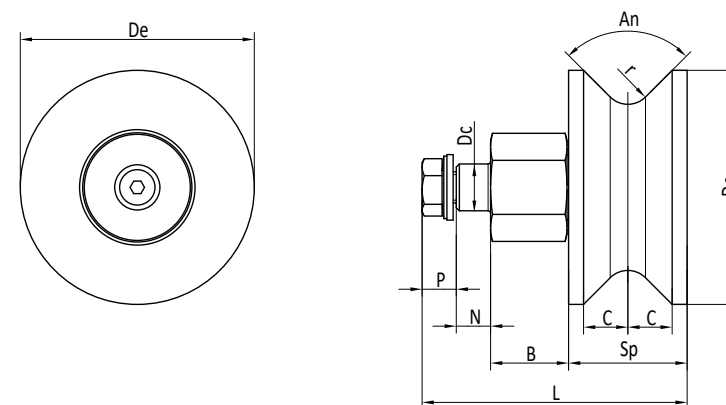
**Monorail plus 120 wheel**

Fr = Radial load (N) -Fa = Axial load (N)



| Code              | Dimensions (mm) |    |    |     |    |      |    |   |    |    |  | Fr (N) | Fa (N) |  |
|-------------------|-----------------|----|----|-----|----|------|----|---|----|----|--|--------|--------|--|
|                   | Dc              | De | Sp | An  | B  | C    | N  | r | P  | L  |  |        |        |  |
| <b>CONCENTRIC</b> |                 |    |    |     |    |      |    |   |    |    |  |        |        |  |
| GRUGD0000153      | 15              | 75 | 38 | 90° | 10 | 14.2 | 11 | 8 | 11 | 70 |  | 1200   | 324    |  |

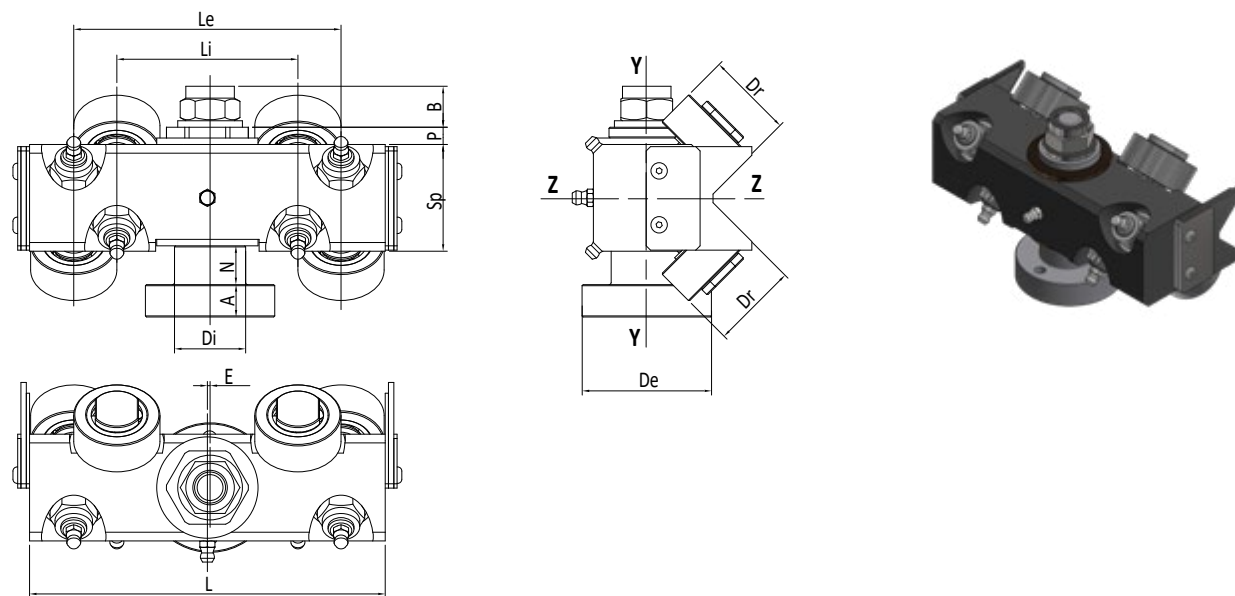
**Monorail plus 180 wheel**



| Code               | Dimensions (mm) |    |    |     |    |      |    |   |    |    |  | Fr (N) | Fa (N) |  |
|--------------------|-----------------|----|----|-----|----|------|----|---|----|----|--|--------|--------|--|
|                    | Dc              | De | Sp | A   | B  | C    | N  | r | P  | L  |  |        |        |  |
| <b>CONCENTRIC:</b> |                 |    |    |     |    |      |    |   |    |    |  |        |        |  |
| GRUGD0000155       | 15              | 75 | 38 | 90° | 25 | 14.2 | 11 | 8 | 11 | 85 |  | 1200   | 324    |  |

**N.B.** The Monorail plus guides can be configured with a customized car plate based on the customer's design and using the wheels and profiles for Monorail plus shown in this section. In the "LINEAR BELT DRIVE MODULES" section of this catalogue you can find the Monorail plus axes assembled with standard components and available in stock.

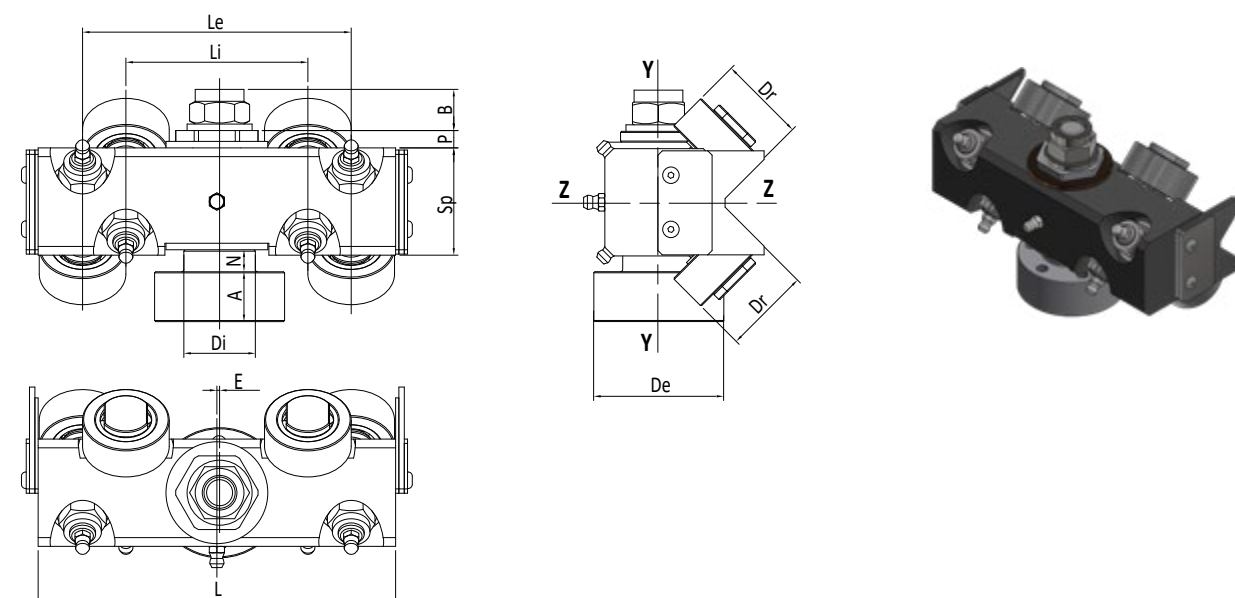
**Wheels on Monorail plus 120 oscillating car**



| Code               | Dimensions (mm) |    |    |    |    |      |     |     |    |    |   |      | Fy (N) <sup>°</sup> | Fz (N) |
|--------------------|-----------------|----|----|----|----|------|-----|-----|----|----|---|------|---------------------|--------|
|                    | A               | B  | De | Di | Dr | E    | L   | Le  | Li | N  | P | Sp   |                     |        |
| <b>CONCENTRIC:</b> |                 |    |    |    |    |      |     |     |    |    |   |      |                     |        |
| GAGXX0000008       | 15              | 19 | 60 | 33 | 40 | -    | 165 | 124 | 84 | 10 | 8 | 49.5 | 3535                | 1432   |
| <b>ECCENTRIC:</b>  |                 |    |    |    |    |      |     |     |    |    |   |      |                     |        |
| GAGXX0000007       | 15              | 19 | 60 | 33 | 40 | 1.25 | 165 | 124 | 84 | 10 | 8 | 49.5 | 3535                | 1432   |

<sup>°</sup> The Fy values are intended for the load applied to the concentric wheels

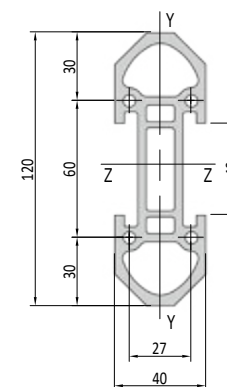
**Wheels on Monorail plus 180 oscillating car**



| Code               | Dimensions (mm) |    |    |    |    |      |     |     |    |    |   |      | Fy (N) <sup>°</sup> | Fz (N) |
|--------------------|-----------------|----|----|----|----|------|-----|-----|----|----|---|------|---------------------|--------|
|                    | A               | B  | De | Di | Dr | E    | L   | Le  | Li | N  | P | Sp   |                     |        |
| <b>CONCENTRIC:</b> |                 |    |    |    |    |      |     |     |    |    |   |      |                     |        |
| GAGXX0000001       | 15              | 19 | 60 | 33 | 40 | -    | 165 | 124 | 84 | 10 | 8 | 49.5 | 3535                | 1179   |
| <b>ECCENTRIC:</b>  |                 |    |    |    |    |      |     |     |    |    |   |      |                     |        |
| GAGXX0000003       | 23              | 19 | 60 | 33 | 40 | 1.25 | 165 | 124 | 84 | 10 | 8 | 49.5 | 3535                | 1179   |

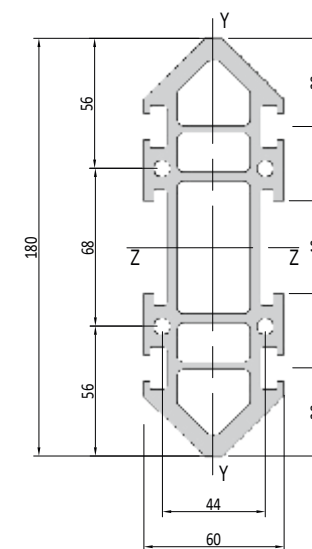
<sup>°</sup> The Fy values are intended for the load applied to the concentric wheels

**Monorail plus 120 profile BPRGD0000136**



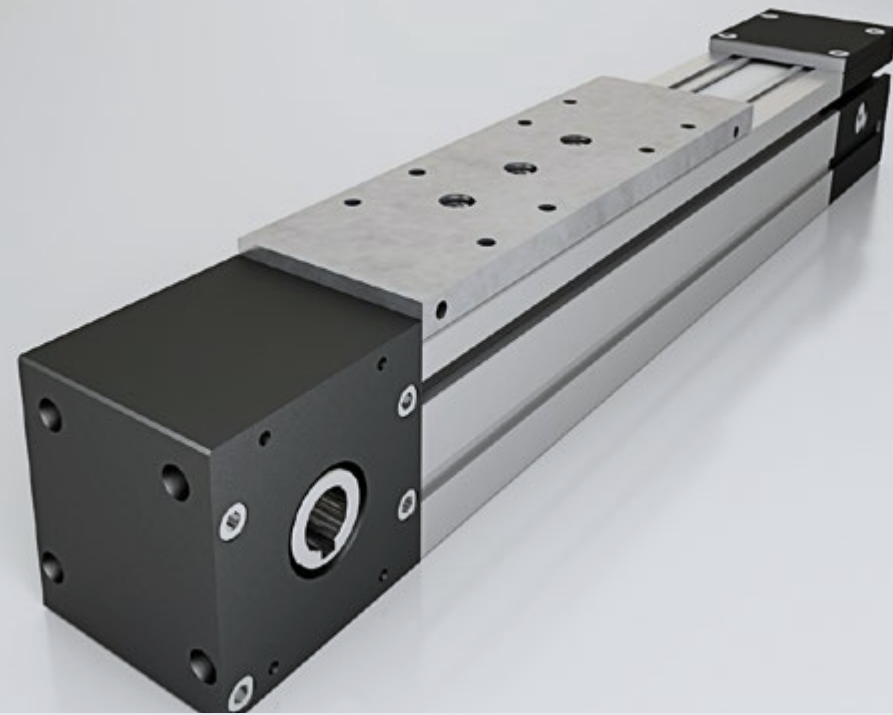
| Technical features         |                          |
|----------------------------|--------------------------|
| Profile area               | 1751 mm <sup>2</sup>     |
| Sizes                      | Y 40 mm                  |
|                            | Z 120 mm                 |
| Moments of inertia         | Jy 25.4 cm <sup>4</sup>  |
|                            | Jz 220.6 cm <sup>4</sup> |
| Profile resilience modulus | Wy 12.7 cm <sup>3</sup>  |
|                            | Wz 36.7 cm <sup>3</sup>  |
| Max. profile length        | 6000 mm                  |
| Mass                       | 4.72 Kg/m                |
| Material                   |                          |
| ALLOY EN AW 6060           |                          |

**Monorail plus 180 profile BPRGD0000137**



| Technical features         |                           |
|----------------------------|---------------------------|
| Profile area               | 3604 mm <sup>2</sup>      |
| Sizes                      | Y 60 mm                   |
|                            | Z 180 mm                  |
| Moments of inertia         | Jy 124.2 cm <sup>4</sup>  |
|                            | Jz 1020.7 cm <sup>4</sup> |
| Profile resilience modulus | Wy 41.4 cm <sup>3</sup>   |
|                            | Wz 113.4 cm <sup>3</sup>  |
| Max. profile length        | 6000 mm                   |
| Mass                       | 9.67 Kg/m                 |
| Material                   |                           |
| ALLOY EN AW 6060           |                           |

**N.B.** The Monorail plus guides can be configured with a customized car plate based on the customer's design and using the wheels and profiles for Monorail plus shown in this section. In the "LINEAR BELT DRIVE MODULES" section of this catalogue you can find the Monorail plus axes assembled with standard components and available in stock.



## LINEAR MODULES BELT DRIVEN

### Sliding on wheels/AR-EL-ELZ-GDR-GDR MLT SERIES

The AR series on wheels with internal sliding, EL with external sliding and GDR with external and extruded sliding on profile 45 are characterized by economy, silence and absence of maintenance. They are particularly suitable for medium/light loads and high speeds and accelerations.

The ELZ series is supplied to complete the wheel range. It keeps the motorization fixed directly on the car and is therefore devoid of heads. This feature makes it suitable for vertical movements or pushers.

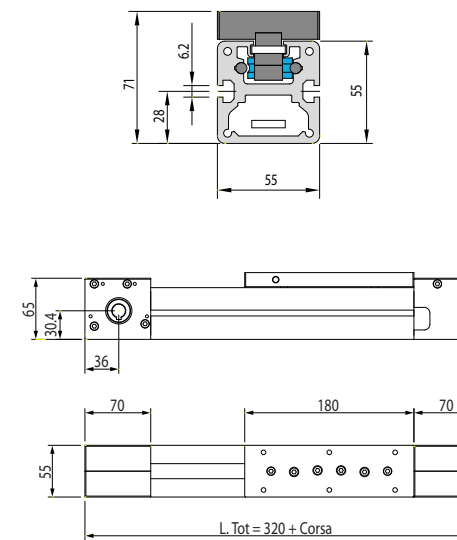
#### OPTIONS

- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

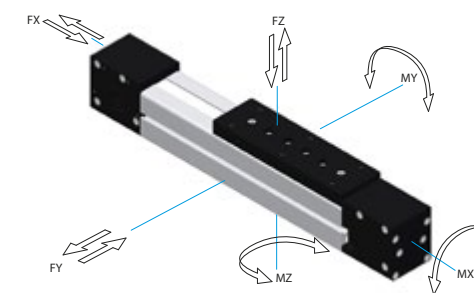
All linear modules are supplied assembled, without motors.

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**

AR55



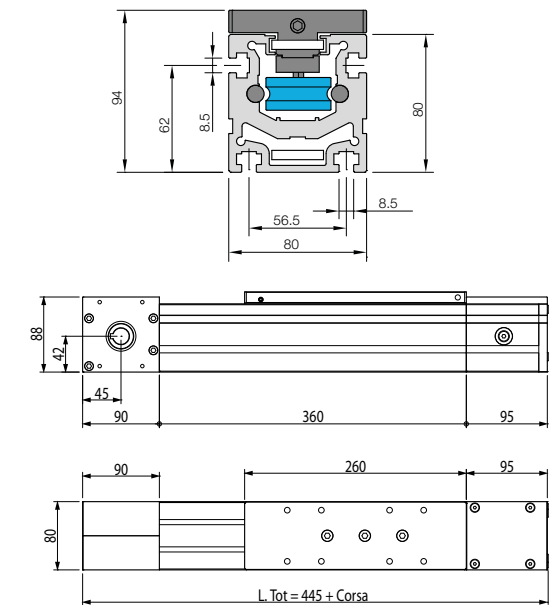
| Technical features          |              |
|-----------------------------|--------------|
| No. of wheels               | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Standard hole with tab seat | Ø 12 - 14 mm |
| Pitch diameter              | Ø 41.38 mm   |
| Pulley                      | Z26 RPP5     |
| Belt                        | RPP5 18      |
| Travel mass 0 mm            | 2.893 Kg     |
| Travel mass every 100 mm    | 0.41 Kg      |



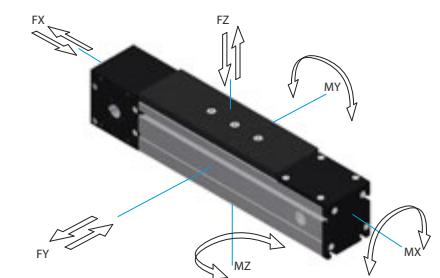
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 600 N *         | MX = 4.5 Nm         |
| FY = 2590 N          | MY = 36 Nm          |
| FZ = 2376 N          | MZ = 64 Nm          |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 300 N           | MX = 1.5 Nm         |
| FY = 518 N           | MY = 7.2 Nm         |
| FZ = 475 N           | MZ = 12.8 Nm        |

\* The belt breaking load is 6050 N.

AR80



| Technical features          |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 16 - 19 mm |
| Complete male shaft         | Ø 25 mm           |
| Pitch diameter              | Ø 66.21 mm        |
| Pulley                      | Z26 RPP8          |
| Belt                        | RPP8 30           |
| Travel mass 0 mm            | 7.782 Kg          |
| Travel mass every 100 mm    | 0.88 Kg           |

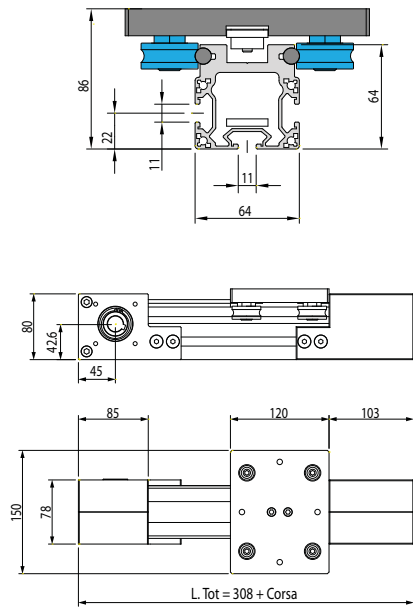


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 4510 N**        | MX = 27 Nm          |
| FY = 4500 N          | MY = 75 Nm          |
| FZ = 2770 N          | MZ = 200 Nm         |
| MINIMUM EMPTY TORQUE | 1.5 Nm              |
| Recommended loads    | Recommended moments |
| FX = 2250 N          | MX = 5.4 Nm         |
| FY = 900 N           | MY = 15 Nm          |
| FZ = 554 N           | MZ = 40 Nm          |

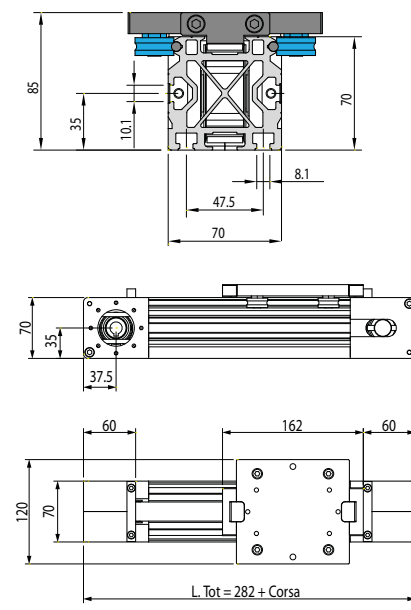
\*\* The belt breaking load is 18050 N.



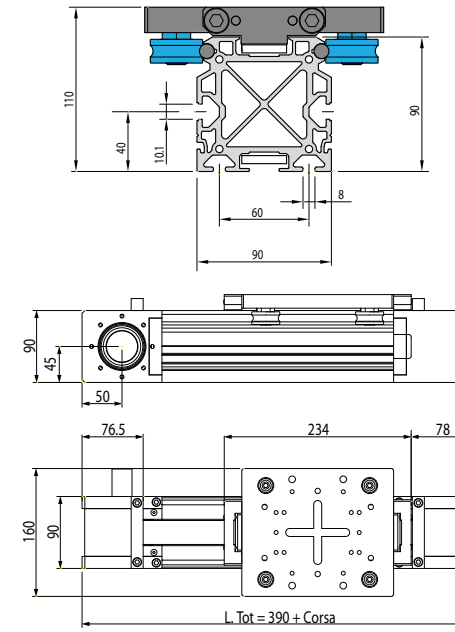
**ELC**



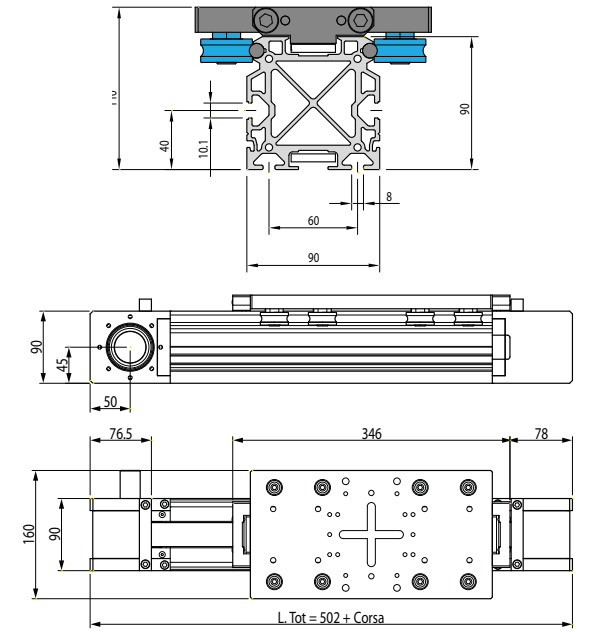
**EL70**



**EL90**



**EL90L**



**Technical features**

|                             |            |
|-----------------------------|------------|
| No. of wheels               | 4          |
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 19 mm    |
| Pitch diameter              | Ø 56.59 mm |
| Pulley                      | Z14 H100   |
| Belt                        | H100       |
| Travel mass 0 mm            | 5.013 Kg   |
| Travel mass every 100 mm    | 0.49 Kg    |

**Technical features**

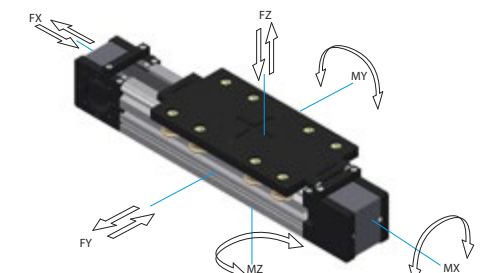
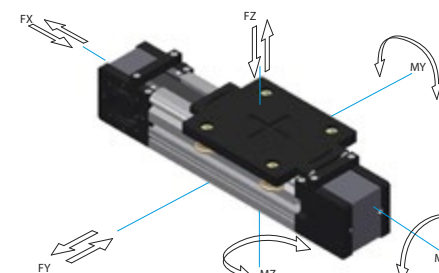
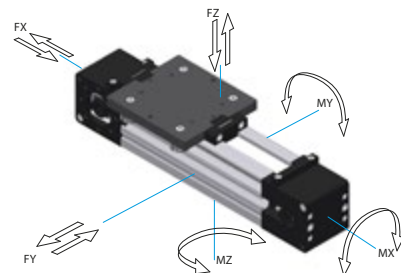
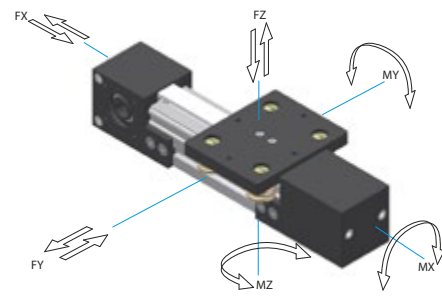
|                             |            |
|-----------------------------|------------|
| No. of wheels               | 4          |
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 14 mm    |
| Complete male shaft         | Ø 14 mm    |
| Pitch diameter              | Ø 57.3 mm  |
| Pulley                      | Z36 RPP5   |
| Belt                        | RPP5 22    |
| Travel mass 0 mm            | 3.649 Kg   |
| Travel mass every 100 mm    | 0.54 Kg    |

**Technical features**

|                             |                             |
|-----------------------------|-----------------------------|
| No. of wheels               | 4                           |
| Positioning repeatability   | +/- 0.1 mm                  |
| Standard hole with tab seat | Ø 14 - 19 - 20 - 22 - 25 mm |
| Complete male shaft         | Ø 25 mm                     |
| Pitch diameter              | Ø 76.39 mm                  |
| Pulley                      | Z30 RPP8                    |
| Belt                        | RPP8 30                     |
| Travel mass 0 mm            | 8.066 Kg                    |
| Travel mass every 100 mm    | 0.86 Kg                     |

**Technical features**

|                             |                             |
|-----------------------------|-----------------------------|
| No. of wheels               | 8                           |
| Positioning repeatability   | +/- 0.1 mm                  |
| Standard hole with tab seat | Ø 14 - 19 - 20 - 22 - 25 mm |
| Complete male shaft         | Ø 25 mm                     |
| Pitch diameter              | Ø 76.39 mm                  |
| Pulley                      | Z30 RPP8                    |
| Belt                        | RPP8 30                     |
| Travel mass 0 mm            | 9.909 Kg                    |
| Travel mass every 100 mm    | 0.86 Kg                     |



| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 2290 N * | MX = 252 Nm     |
| FY = 6609 N   | MY = 211 Nm     |
| FZ = 5280 N   | MZ = 411 Nm     |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.2 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1145 N       | MX = 36 Nm          |
| FY = 944 N        | MY = 30.2 Nm        |
| FZ = 754 N        | MZ = 58.8 Nm        |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 1510 N** | MX = 138 Nm     |
| FY = 6609 N   | MY = 127 Nm     |
| FZ = 3168 N   | MZ = 396 Nm     |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.2 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 755 N        | MX = 19.8 Nm        |
| FY = 944 N        | MY = 18.1 Nm        |
| FZ = 452 N        | MZ = 56.7 Nm        |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4510 N * | MX = 310 Nm     |
| FY = 6609 N   | MY = 343 Nm     |
| FZ = 5280 N   | MZ = 582 Nm     |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.5 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2550 N       | MX = 44.3 Nm        |
| FY = 944 N        | MY = 49 Nm          |
| FZ = 754 N        | MZ = 83.2 Nm        |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4510 N** | MX = 423 Nm     |
| FY = 10771 N  | MY = 639 Nm     |
| FZ = 7200 N   | MZ = 889 Nm     |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.5 Nm |
|----------------------|--------|

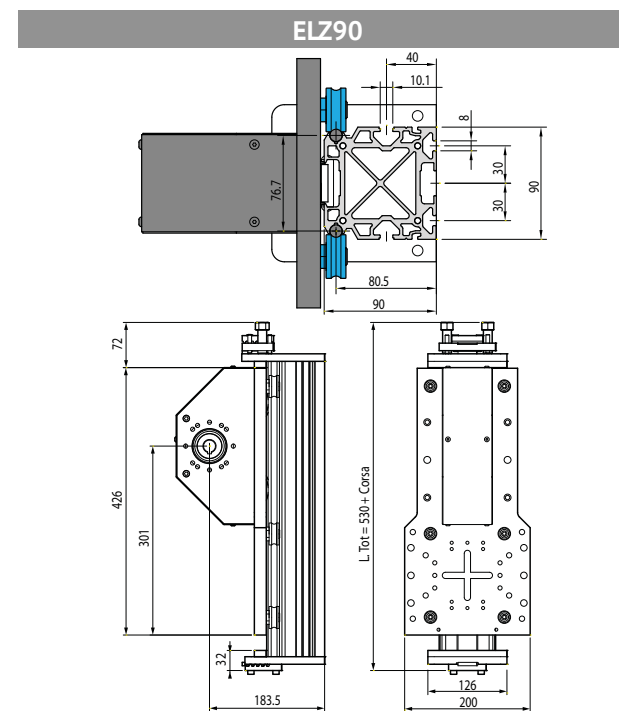
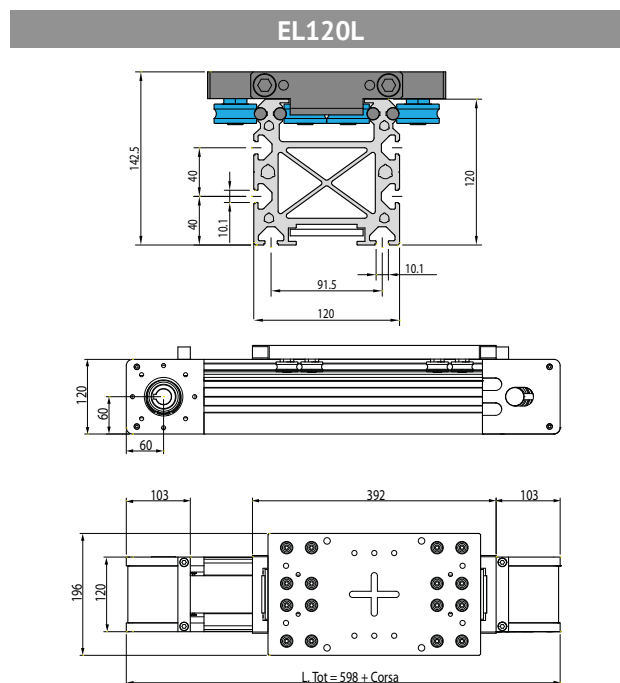
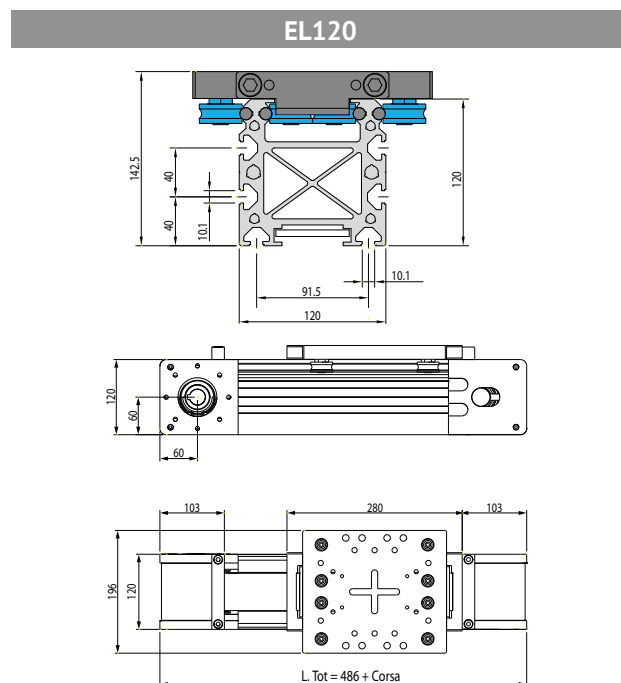
| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2550 N       | MX = 60.4 Nm        |
| FY = 1538 N       | MY = 91.3 Nm        |
| FZ = 1028 N       | MZ = 127 Nm         |

\* The belt breaking load is 9175 N.

\*\* The belt breaking load is 6045 N.

\* The belt breaking load is 18050 N.

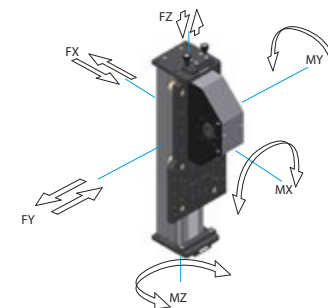
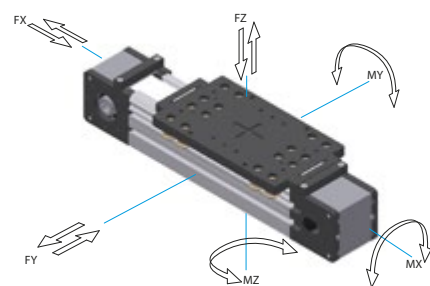
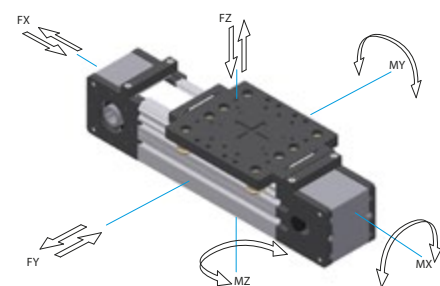
\*\* The belt breaking load is 18050 N.



| Technical features          |              |
|-----------------------------|--------------|
| No. of wheels               | 8            |
| Positioning repeatability   | +/- 0.1 mm   |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 35 mm      |
| Pitch diameter              | Ø 101.86 mm  |
| Pulley                      | Z40 RPP8     |
| Belt                        | RPP8 60      |
| Travel mass 0 mm            | 19.169 Kg    |
| Travel mass every 100 mm    | 1.79 Kg      |

| Technical features          |              |
|-----------------------------|--------------|
| No. of wheels               | 16           |
| Positioning repeatability   | +/- 0.1 mm   |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 35 mm      |
| Pitch diameter              | Ø 101.86 mm  |
| Pulley                      | Z40 RPP8     |
| Belt                        | RPP8 60      |
| Travel mass 0 mm            | 22.265 Kg    |
| Travel mass every 100 mm    | 1.83 Kg      |

| Technical features          |            |
|-----------------------------|------------|
| No. of wheels               | 6          |
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 19 mm    |
| Complete male shaft         | Ø 25 mm    |
| Pitch diameter              | Ø 76.39 mm |
| Pulley                      | Z30 RPP8   |
| Belt                        | RPP8 30    |
| Travel mass 0 mm            | 14.567 Kg  |
| Travel mass every 100 mm    | 0.86 Kg    |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 9020 N *        | MX = 397 Nm         |
| FY = 10771 N         | MY = 612 Nm         |
| FZ = 7200 N          | MZ = 750 Nm         |
| MINIMUM EMPTY TORQUE | 1.7 Nm              |
| Recommended loads    | Recommended moments |
| FX = 4510 N          | MX = 56.7 Nm        |
| FY = 1538 N          | MY = 87.4 Nm        |
| FZ = 1028 N          | MZ = 107 Nm         |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 9020 N**        | MX = 541 Nm         |
| FY = 14688 N         | MY = 1015 Nm        |
| FZ = 14400 N         | MZ = 1056 Nm        |
| MINIMUM EMPTY TORQUE | 1.7 Nm              |
| Recommended loads    | Recommended moments |
| FX = 4510 N          | MX = 77.2 Nm        |
| FY = 2098 N          | MY = 145 Nm         |
| FZ = 2057 N          | MZ = 150.8 Nm       |

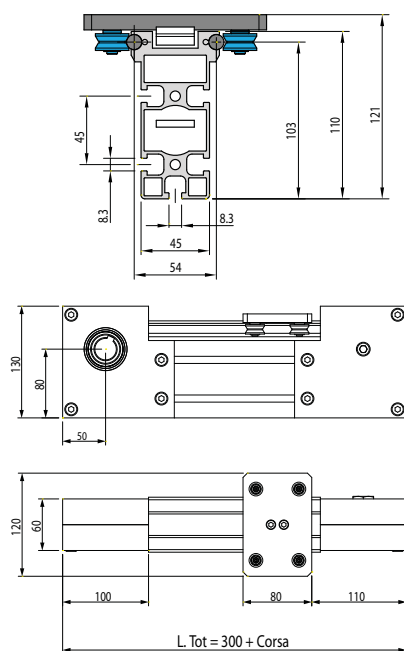
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1890 N *        | MX = 1060 Nm        |
| FY = 5540 N          | MY = 216 Nm         |
| FZ = 4510 N          | MZ = 117 Nm         |
| MINIMUM EMPTY TORQUE | 1.5 Nm              |
| Recommended loads    | Recommended moments |
| FX = 378 N           | MX = 212 Nm         |
| FY = 1108 N          | MY = 43 Nm          |
| FZ = 2550 N          | MZ = 23 Nm          |

\* The belt breaking load is 36100 N.

\*\* The belt breaking load is 36100 N.

\* The belt breaking load is 18050 N.

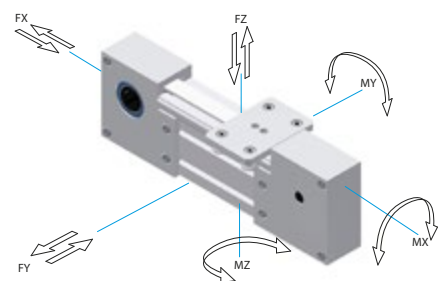
**GDR10A**



**Technical features**

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |

|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 5.681 Kg |
| Travel mass every 100 mm | 0.57 Kg  |



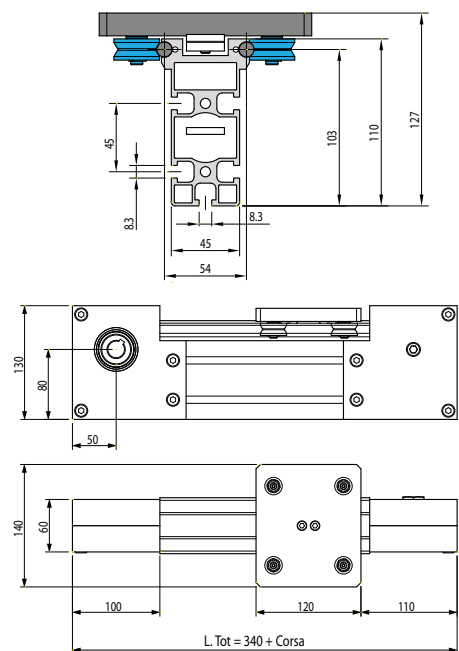
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N * | MX = 105 Nm     |
| FY = 1552 N   | MY = 63 Nm      |
| FZ = 2534 N   | MZ = 75 Nm      |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 15 Nm          |
| FY = 222 N        | MY = 9 Nm           |
| FZ = 362 N        | MZ = 10.8 Nm        |

\* The belt breaking load is 14440 N.

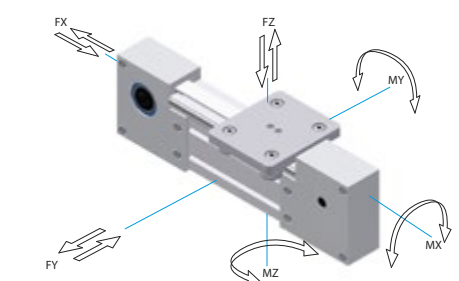
**GDR10B**



**Technical features**

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |

|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 6.601 Kg |
| Travel mass every 100 mm | 0.57 Kg  |



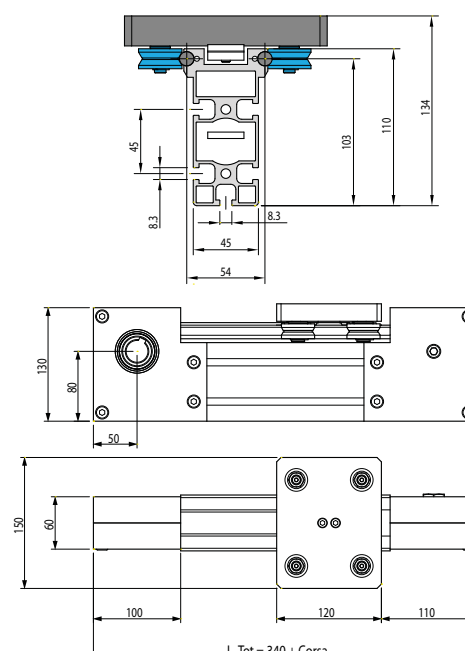
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N** | MX = 258 Nm     |
| FY = 3500 N   | MY = 228 Nm     |
| FZ = 5702 N   | MZ = 211 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 36.8 Nm        |
| FY = 500 N        | MY = 32.6 Nm        |
| FZ = 814 N        | MZ = 30.2 Nm        |

\*\* The belt breaking load is 14440 N.

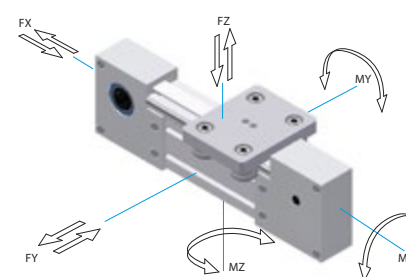
**GDR10C**



**Technical features**

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |

|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 7.179 Kg |
| Travel mass every 100 mm | 0.57 Kg  |



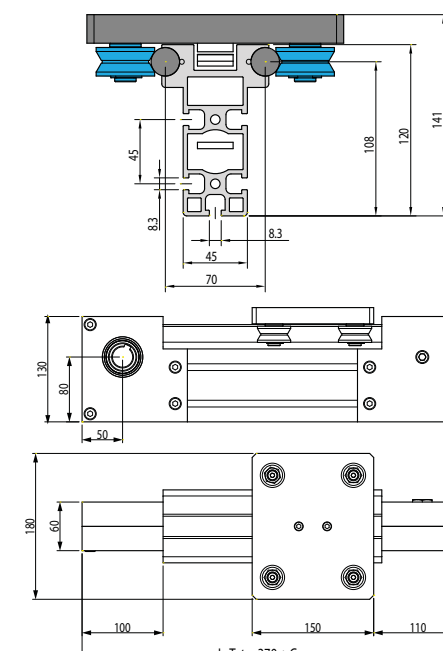
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N * | MX = 718 Nm     |
| FY = 9720 N   | MY = 546 Nm     |
| FZ = 14573 N  | MZ = 602 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 102.6 Nm       |
| FY = 1388 N       | MY = 78 Nm          |
| FZ = 2082 N       | MZ = 86 Nm          |

\* The belt breaking load is 14440 N.

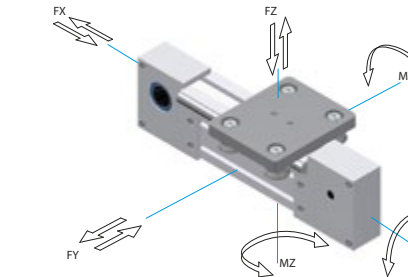
**GDR20A**



**Technical features**

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |

|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 9.079 Kg |
| Travel mass every 100 mm | 1.15 Kg  |



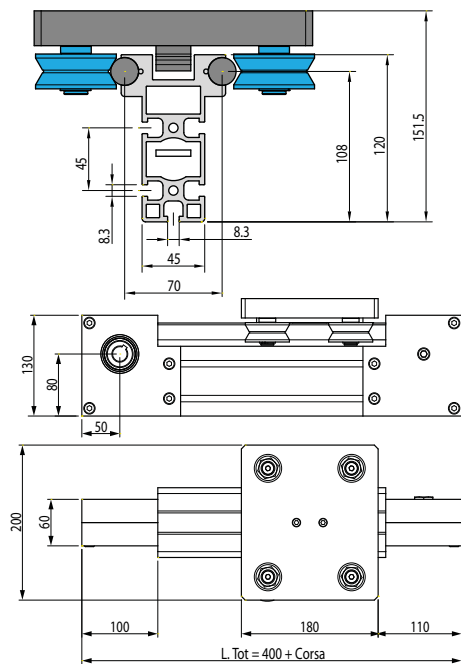
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N** | MX = 918 Nm     |
| FY = 9720 N   | MY = 728 Nm     |
| FZ = 14573 N  | MZ = 782 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

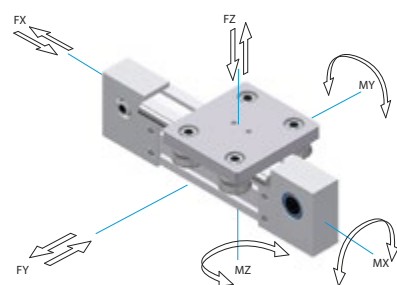
| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 131 Nm         |
| FY = 1388 N       | MY = 104 Nm         |
| FZ = 2082 N       | MZ = 112 Nm         |

\*\* The belt breaking load is 14440 N.

**GDR20B**



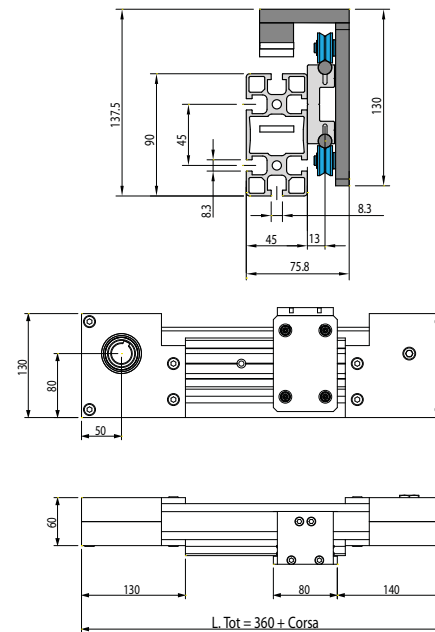
| Technical features          |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 11.643 Kg         |
| Travel mass every 100 mm    | 1.15 Kg           |



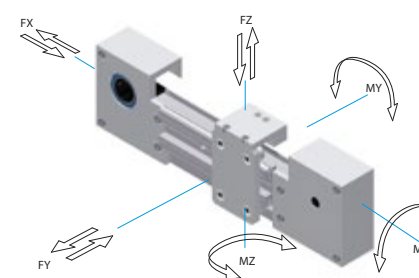
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N *        | MX = 1182 Nm        |
| FY = 12960 N         | MY = 929 Nm         |
| FZ = 16896 N         | MZ = 1153 Nm        |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1805 N          | MX = 169 Nm         |
| FY = 1851 N          | MY = 133 Nm         |
| FZ = 2414 N          | MZ = 165 Nm         |

\* The belt breaking load is 14440 N.

**GDR10AMLT**



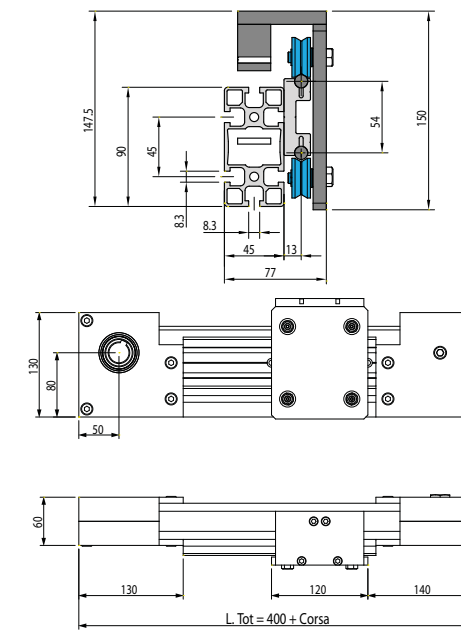
| Technical features          |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 6.083 Kg          |
| Travel mass every 100 mm    | 0.55 Kg           |



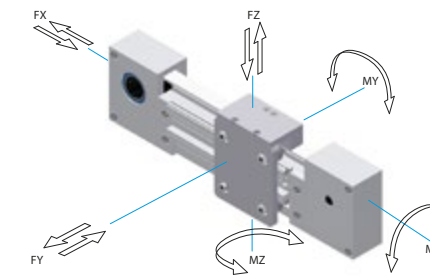
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N *        | MX = 105 Nm         |
| FY = 2534 N          | MY = 75 Nm          |
| FZ = 1552 N          | MZ = 63 Nm          |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1805 N          | MX = 15 Nm          |
| FY = 362 N           | MY = 10.8 Nm        |
| FZ = 222 N           | MZ = 9 Nm           |

\* The belt breaking load is 14440 N.

**GDR10BMLT**



| Technical features          |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 6.866 Kg          |
| Travel mass every 100 mm    | 0.55 Kg           |

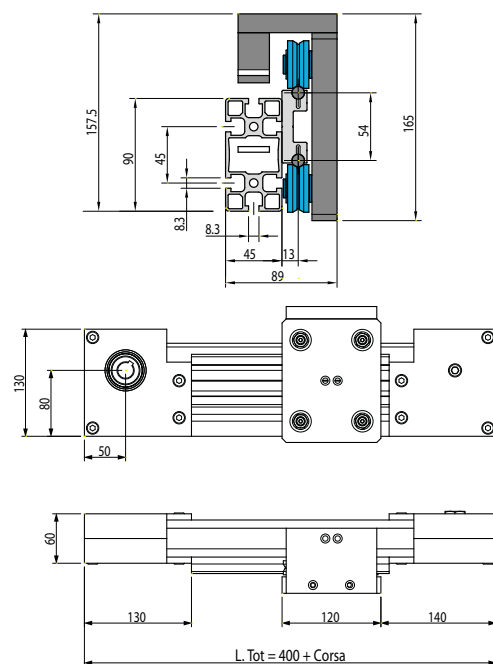


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N**        | MX = 258 Nm         |
| FY = 5702 N          | MY = 211 Nm         |
| FZ = 3500 N          | MZ = 228 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1805 N          | MX = 36.8 Nm        |
| FY = 814 N           | MY = 30.2 Nm        |
| FZ = 500 N           | MZ = 32.6 Nm        |

\*\* The belt breaking load is 14440 N.

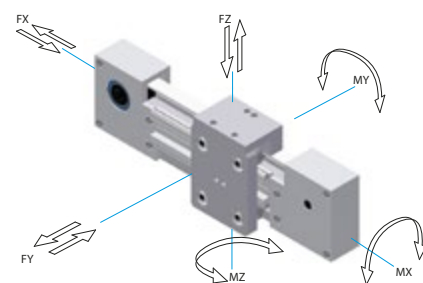


GDR10CMLT



## Technical features

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 8.133 Kg          |
| Travel mass every 100 mm    | 0.55 Kg           |



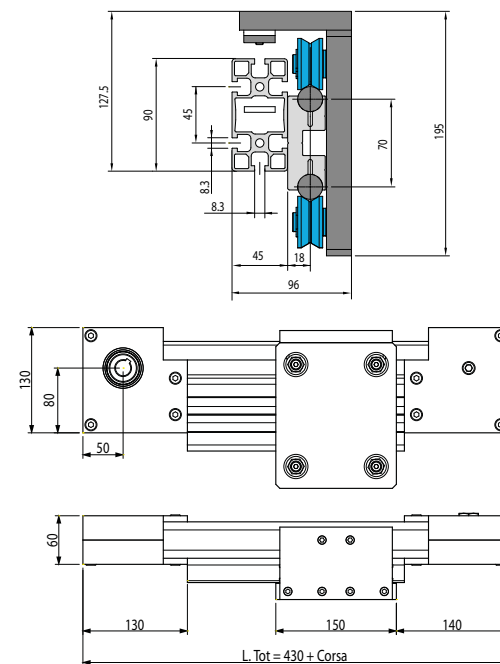
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N * | MX = 718 Nm     |
| FY = 14573 N  | MY = 602 Nm     |
| FZ = 9720 N   | MZ = 546 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 102.6 Nm       |
| FY = 2082 N       | MY = 86 Nm          |
| FZ = 1388 N       | MZ = 78 Nm          |

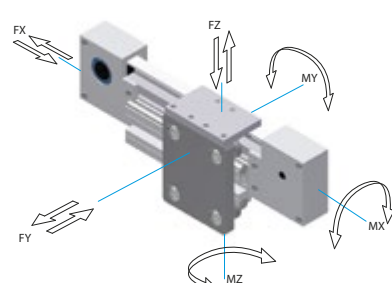
\* The belt breaking load is 14440 N.

GDR20AMLT



## Technical features

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 9.995 Kg          |
| Travel mass every 100 mm    | 1.23 Kg           |



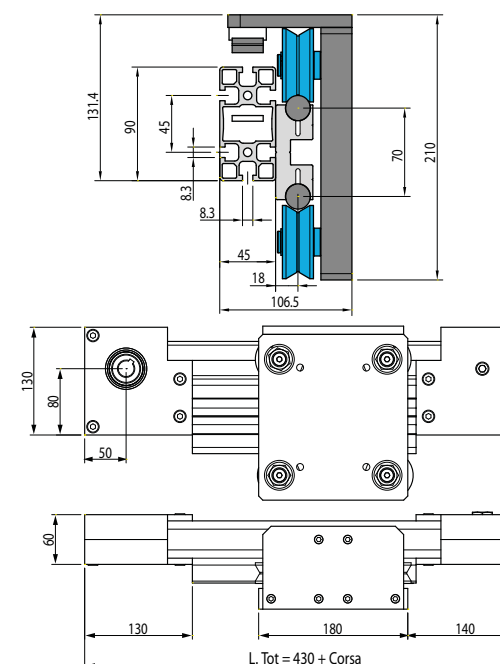
| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N** | MX = 918 Nm     |
| FY = 14573 N  | MY = 782 Nm     |
| FZ = 9720 N   | MZ = 728 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 131 Nm         |
| FY = 2082 N       | MY = 112 Nm         |
| FZ = 1388 N       | MZ = 104 Nm         |

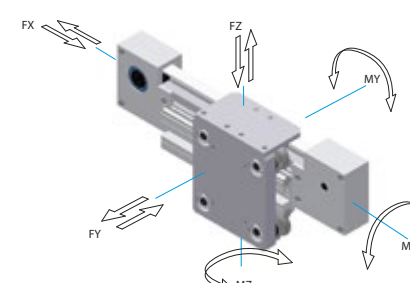
\*\* The belt breaking load is 14440 N.

GDR20BMLT



## Technical features

|                             |                   |
|-----------------------------|-------------------|
| No. of wheels               | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Pitch diameter              | Ø 63.66 mm        |
| Pulley                      | Z20 AT10          |
| Belt                        | AT10 25           |
| Travel mass 0 mm            | 12.533 Kg         |
| Travel mass every 100 mm    | 1.23 Kg           |

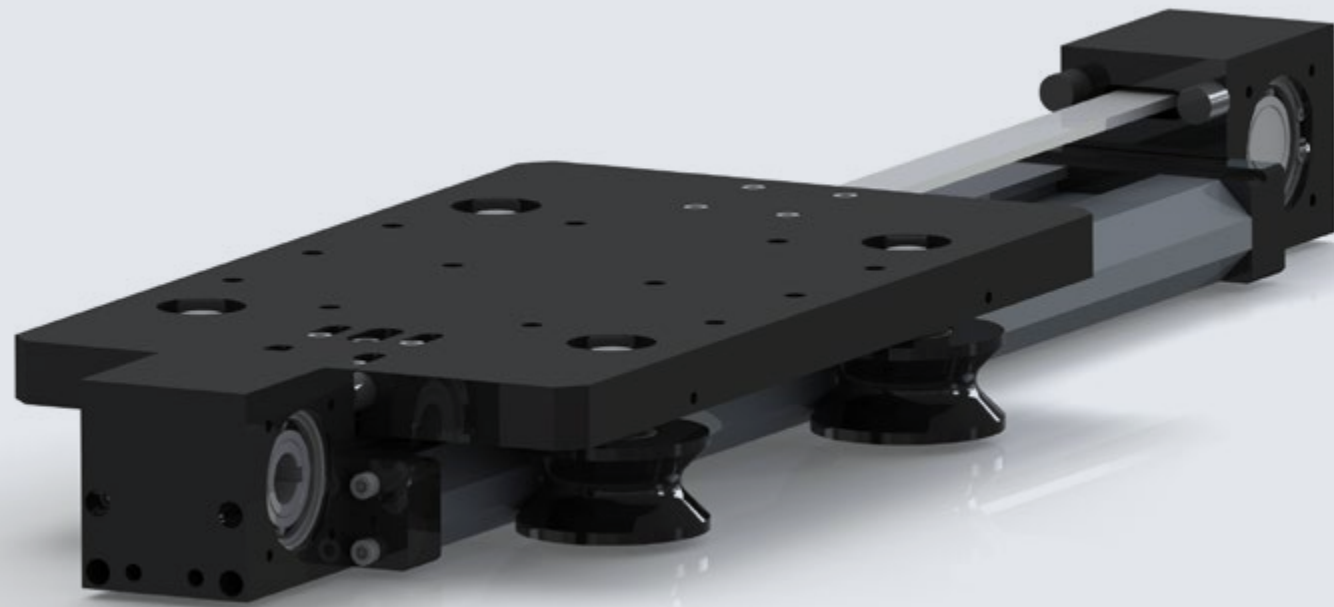


| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3610 N * | MX = 1182 Nm    |
| FY = 16896 N  | MY = 1153 Nm    |
| FZ = 12690 N  | MZ = 929 Nm     |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1805 N       | MX = 169 Nm         |
| FY = 2414 N       | MY = 165 Nm         |
| FZ = 1851 N       | MZ = 133 Nm         |

\* The belt breaking load is 14440 N.



## LINEAR MODULES BELT DRIVEN

### Sliding wheels/ELP120-ELP180 SERIES

The ELP wheels series allows high sliding speeds to be reached and good positioning accuracy. The positive "V" profile of the monorail guide makes it particularly suitable for dirty environments.

To complete the range, where there are medium/high loads, the ELP120C/ELPC180C series is supplied with wheels fitted at 45° on a car support.

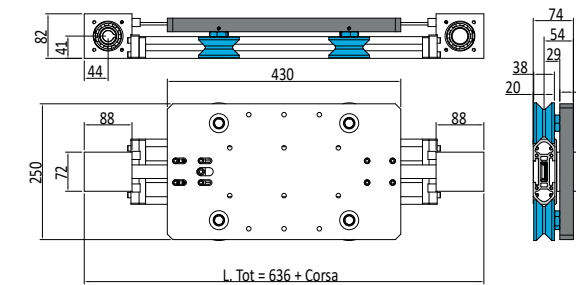
#### OPTIONS

- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

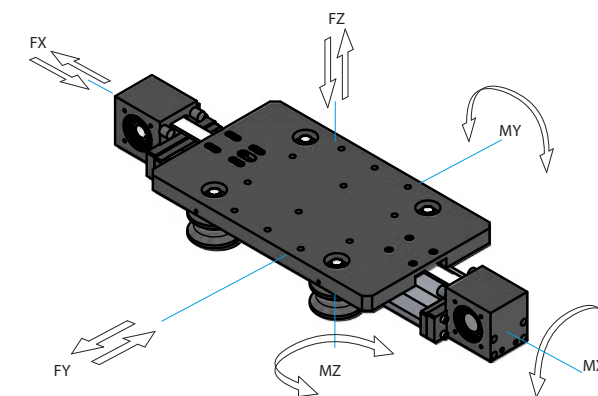
All linear modules are supplied assembled, without motors.

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**

#### ELP120R



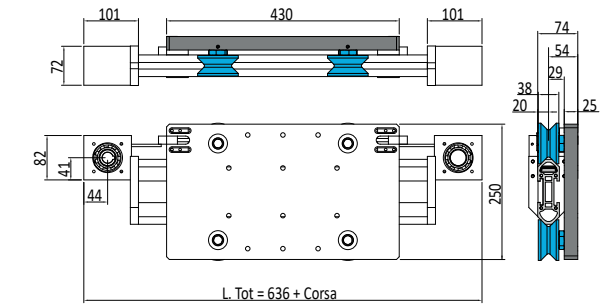
| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 20 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 14.52 Kg   |
| Travel mass every 100 mm    | 0.52 Kg    |



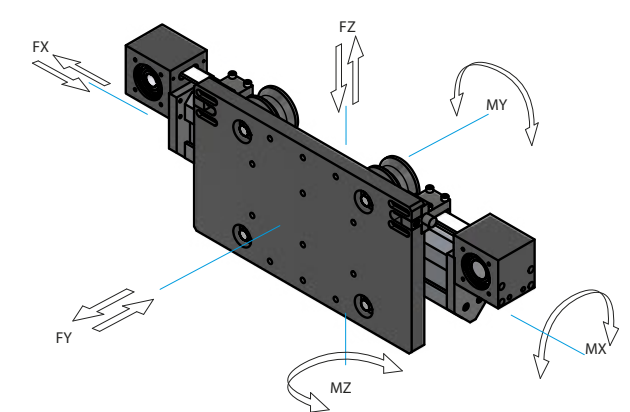
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N *        | MX = 115 Nm         |
| FY = 2400 N          | MY = 155 Nm         |
| FZ = 1296 N          | MZ = 300 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 23 Nm          |
| FY = 480 N           | MY = 31 Nm          |
| FZ = 256 N           | MZ = 60 Nm          |

\* The belt breaking load is 14440 N.

#### ELP120RLT



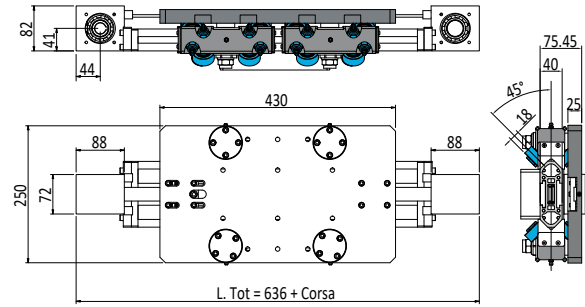
| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 20 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 15.17 Kg   |
| Travel mass every 100 mm    | 0.51 Kg    |



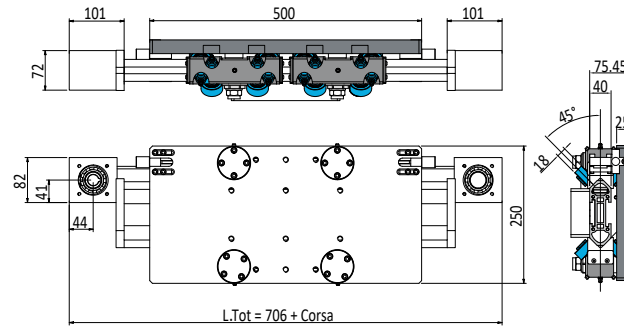
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N**        | MX = 115 Nm         |
| FY = 1296 N          | MY = 300 Nm         |
| FZ = 2400 N          | MZ = 155 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 23 Nm          |
| FY = 256 N           | MY = 60 Nm          |
| FZ = 480 N           | MZ = 31 Nm          |

\*\* The belt breaking load is 14440 N.

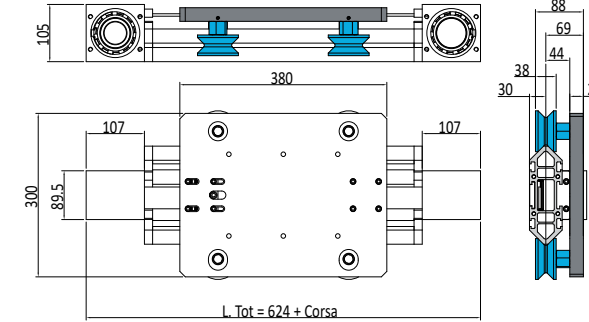
ELP120C



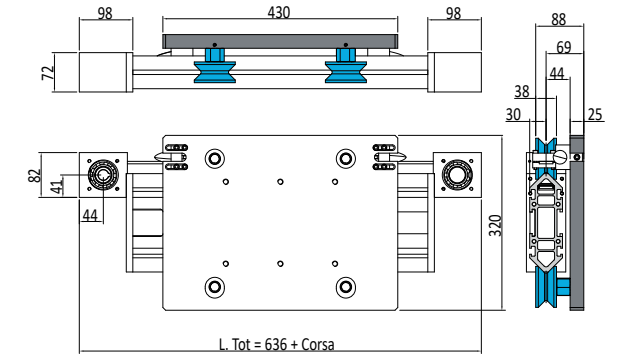
ELP120CLT



ELP180R



ELP180RLT

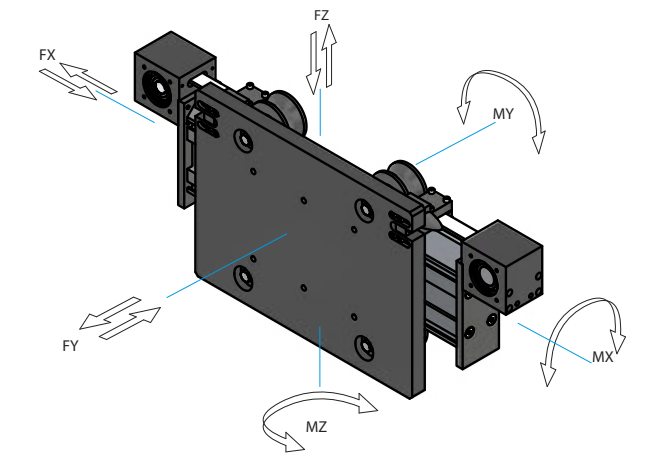
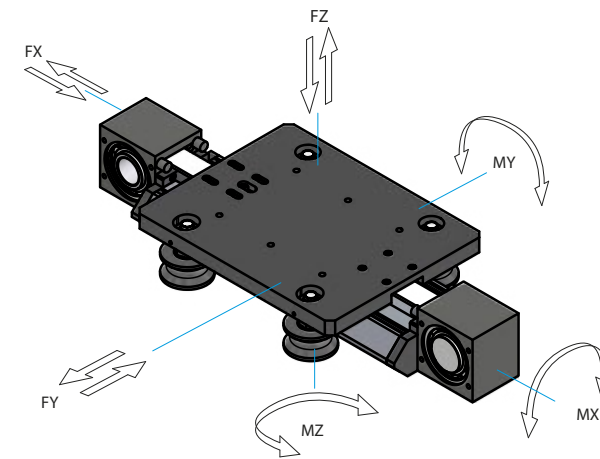
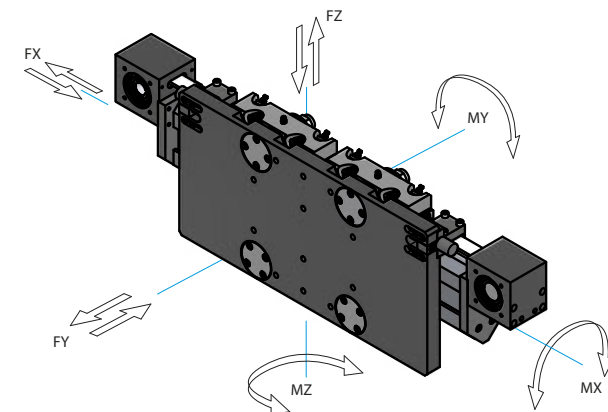
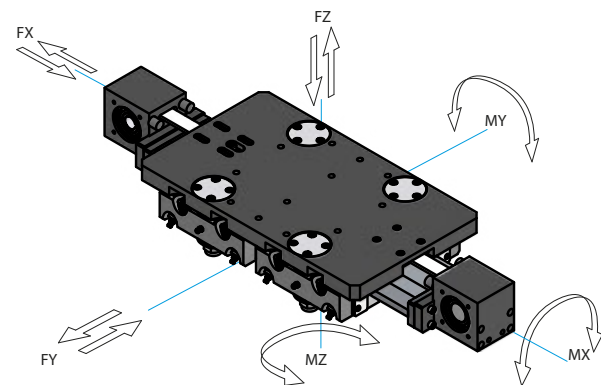


| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 20 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 21.07 Kg   |
| Travel mass every 100 mm    | 0.52 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 20 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 21.72 Kg   |
| Travel mass every 100 mm    | 0.51 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 41 mm    |
| Pitch diameter              | Ø 66.84 mm |
| Pulley                      | Z21 AT10   |
| Belt                        | AT10 40    |
| Travel mass 0 mm            | 18.28 Kg   |
| Travel mass every 100 mm    | 1.00 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 19 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 20.30 Kg   |
| Travel mass every 100 mm    | 0.98 Kg    |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N *        | MX = 538 Nm         |
| FY ° = 7070 N        | MY = 544 Nm         |
| FZ = 5728 N          | MZ = 671 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 107 Nm         |
| FY = 1414 N          | MY = 109 Nm         |
| FZ = 1145 N          | MZ = 134 Nm         |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N **       | MX = 538 Nm         |
| FY = 5728 N          | MY = 671 Nm         |
| FZ °° = 7070 N       | MZ = 544 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 107 Nm         |
| FY = 1145 N          | MY = 134 Nm         |
| FZ = 1414 N          | MZ = 109 Nm         |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 6080 N *        | MX = 152 Nm         |
| FY = 2400 N          | MY = 155 Nm         |
| FZ = 1296 N          | MZ = 300 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 3040 N          | MX = 30 Nm          |
| FY = 480 N           | MY = 31 Nm          |
| FZ = 259 N           | MZ = 60 Nm          |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N**        | MX = 152 Nm         |
| FY = 1296 N          | MY = 300 Nm         |
| FZ = 2400 N          | MZ = 155 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 30 Nm          |
| FY = 259 N           | MY = 60 Nm          |
| FZ = 480 N           | MZ = 31 Nm          |

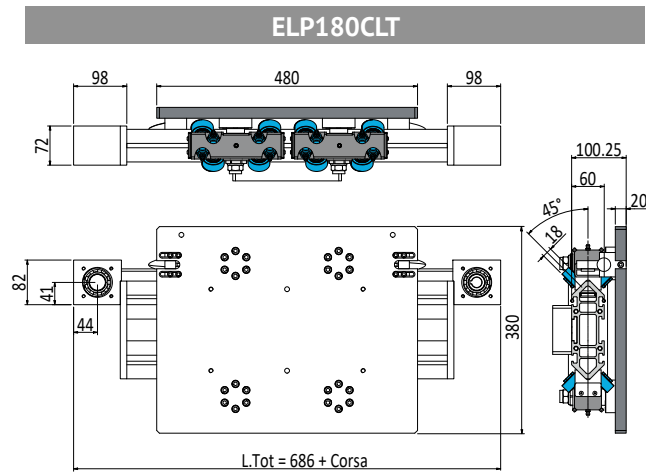
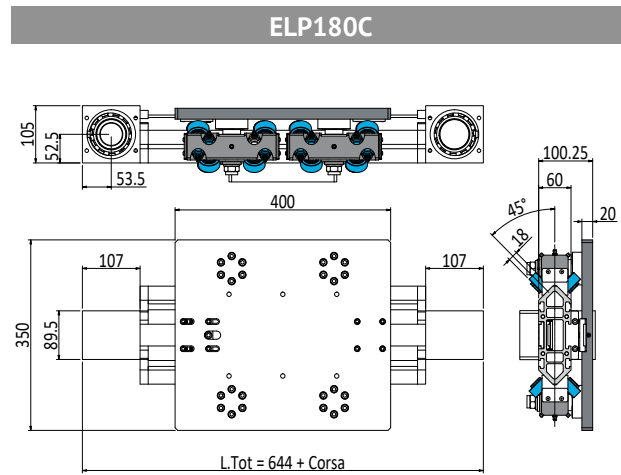
\* The belt breaking load is 14440 N.  
° The Fy values are intended for the load applied to the concentric wheels

\*\* The belt breaking load is 14440 N.  
°° The Fz values are intended for the load applied to the concentric wheels

\* The belt breaking load is 22560 N.

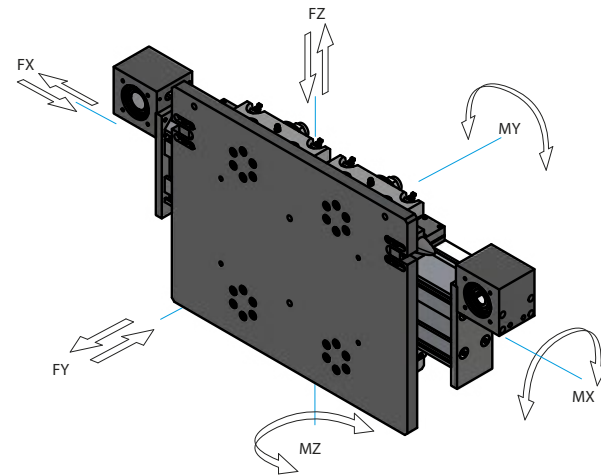
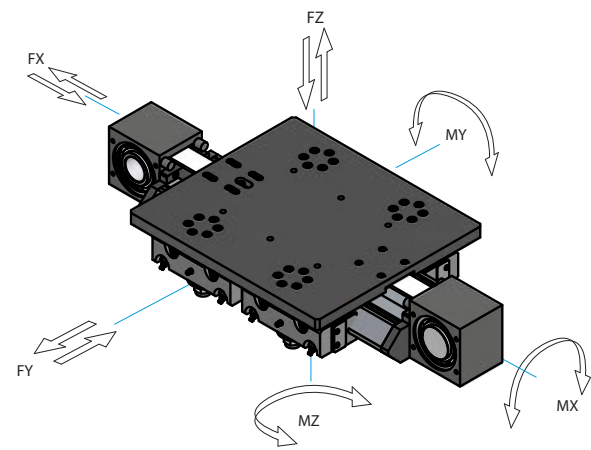
\*\* The belt breaking load is 14440 N.





| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 41 mm    |
| Pitch diameter              | Ø 66.84 mm |
| Pulley                      | Z21 AT10   |
| Belt                        | AT10 40    |
| Travel mass 0 mm            | 29.33 Kg   |
| Travel mass every 100 mm    | 1.00 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| Positioning repeatability   | +/- 0.1 mm |
| Standard hole with tab seat | Ø 19 mm    |
| Pitch diameter              | Ø 47.75 mm |
| Pulley                      | Z15 AT10   |
| Belt                        | AT10 25    |
| Travel mass 0 mm            | 31.09 Kg   |
| Travel mass every 100 mm    | 0.98 Kg    |

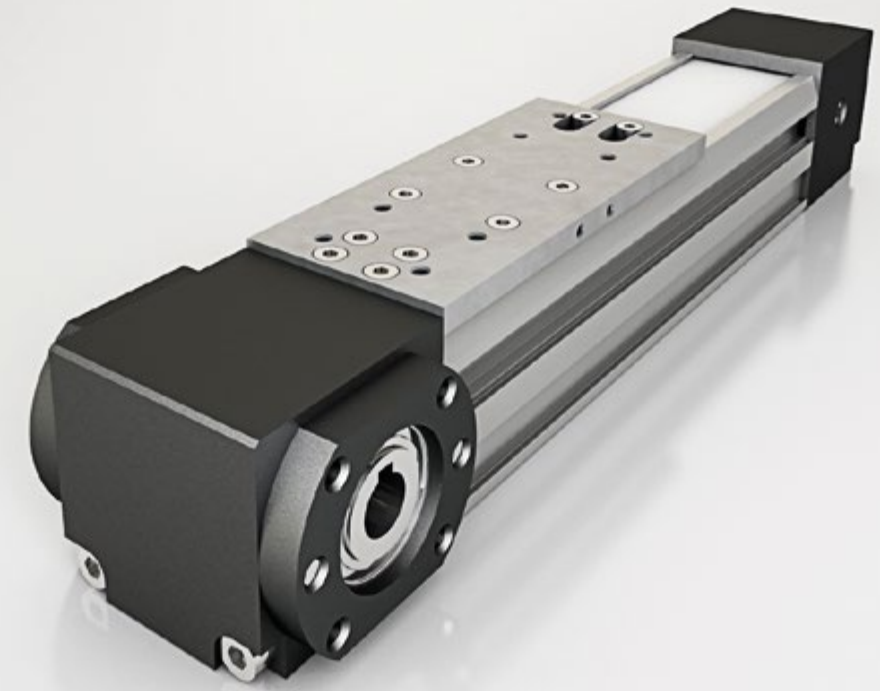


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 6080 N *        | MX = 576 Nm         |
| FY ° = 7070 N        | MY = 448 Nm         |
| FZ = 4716 N          | MZ = 864 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 3040 N          | MX = 115 Nm         |
| FY = 1414 N          | MY = 89 Nm          |
| FZ = 943 N           | MZ = 173 Nm         |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 3610 N **       | MX = 576 Nm         |
| FY = 4716 N          | MY = 864 Nm         |
| FZ °° = 7070 N       | MZ = 448 Nm         |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = 1800 N          | MX = 115 Nm         |
| FY = 943 N           | MY = 173 Nm         |
| FZ = 1414 N          | MZ = 89 Nm          |

\* The belt breaking load is 22560 N.  
° The Fy values are intended for the load applied to the concentric wheels

\*\* The belt breaking load is 14440 N.  
°° The Fz values are intended for the load applied to the concentric wheels



## LINEAR MODULES BELT DRIVEN

### Recirculating ball slide/AG-ELG-MDR-AGZ-ELGZ SERIES

The AG, ELG and MDr series that slide on recirculating ball guides are divided according to the type of sliding (internal or external to the extrusion) and according to the section of the guide profile (which varies from 50 to 200mm). They allow the most varied requirements to be met in terms of dynamics and load capacity and are particularly suitable for medium/heavy loads and offer excellent resistance to vibrations.

The AGZ and ELGZ models with motors fixed on the car are also available for this type. The telescopic models ELG90T and AGZ200T are suitable if the application requires vertical movements with reduced dimensions.

#### OPTIONS

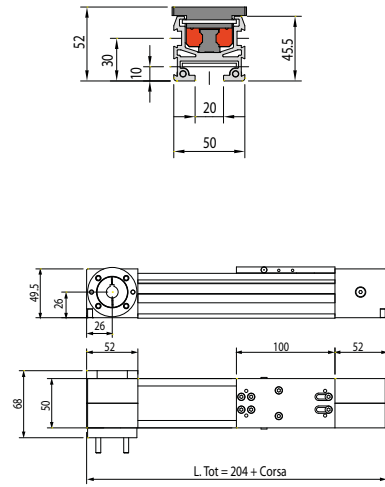
- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

All linear modules are supplied assembled, without motors.

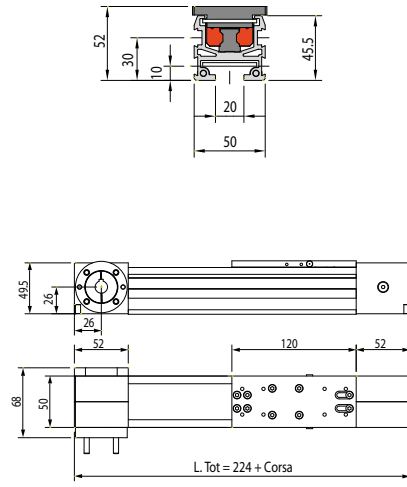
**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**



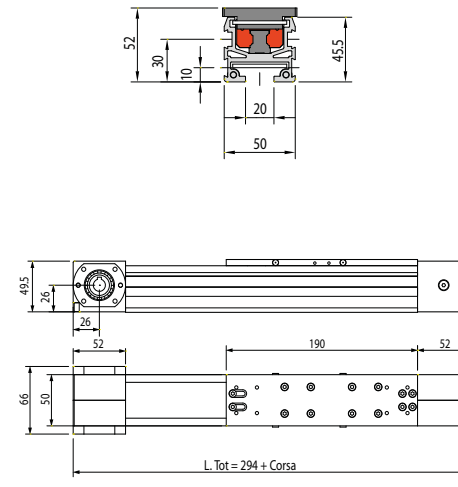
### AG50-100



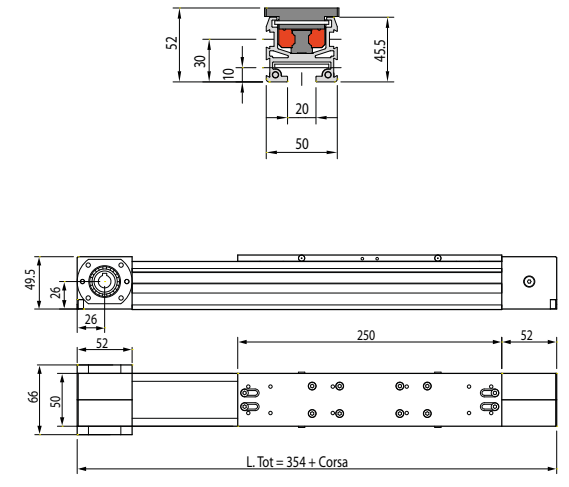
### AG50-120



### AG50-190



### AG50-250

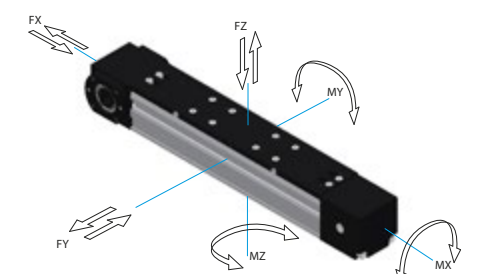
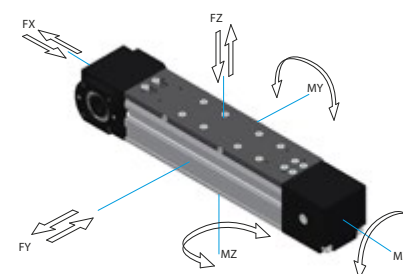
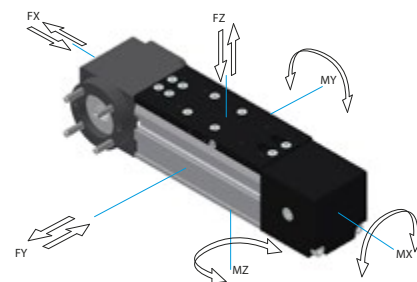
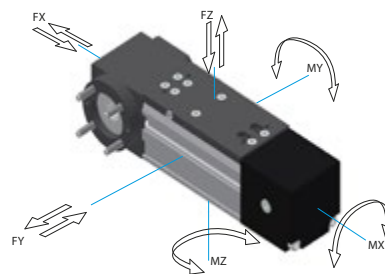


| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 1          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 12 mm    |
| Pitch diameter              | Ø 31.83 mm |
| Pulley                      | Z20 T5     |
| Belt                        | T5 38      |
| Travel mass 0 mm            | 1.378 Kg   |
| Travel mass every 100 mm    | 0.23 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 1          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 12 mm    |
| Pitch diameter              | Ø 31.83 mm |
| Pulley                      | Z20 T5     |
| Belt                        | T5 38      |
| Travel mass 0 mm            | 1.502 Kg   |
| Travel mass every 100 mm    | 0.23 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 2          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 12 mm    |
| Pitch diameter              | Ø 31.83 mm |
| Pulley                      | Z20 T5     |
| Belt                        | T5 38      |
| Travel mass 0 mm            | 1.934 Kg   |
| Travel mass every 100 mm    | 0.23 Kg    |

| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 2          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 12 mm    |
| Pitch diameter              | Ø 31.83 mm |
| Pulley                      | Z20 T5     |
| Belt                        | T5 38      |
| Travel mass 0 mm            | 2.130 Kg   |
| Travel mass every 100 mm    | 0.23 Kg    |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1260 N *        | MX = 52 Nm          |
| FY = 5400 N          | MY = 19 Nm          |
| FZ = 5400 N          | MZ = 19 Nm          |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 630 N           | MX = 10 Nm          |
| FY = 1080 N          | MY = 3.8 Nm         |
| FZ = 1080 N          | MZ = 3.8 Nm         |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1260 N**        | MX = 74 Nm          |
| FY = 7800 N          | MY = 40 Nm          |
| FZ = 7800 N          | MZ = 40 Nm          |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 630 N           | MX = 15 Nm          |
| FY = 1560 N          | MY = 8 Nm           |
| FZ = 1560 N          | MZ = 8 Nm           |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1260 N *        | MX = 120 Nm         |
| FY = 12600 N         | MY = 423 Nm         |
| FZ = 12600 N         | MZ = 423 Nm         |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 630 N           | MX = 24 Nm          |
| FY = 2520 N          | MY = 84 Nm          |
| FZ = 2520 N          | MZ = 84 Nm          |

| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1260 N**        | MX = 120 Nm         |
| FY = 12600 N         | MY = 530 Nm         |
| FZ = 12600 N         | MZ = 530 Nm         |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 630 N           | MX = 24 Nm          |
| FY = 2520 N          | MY = 106 Nm         |
| FZ = 2520 N          | MZ = 106 Nm         |

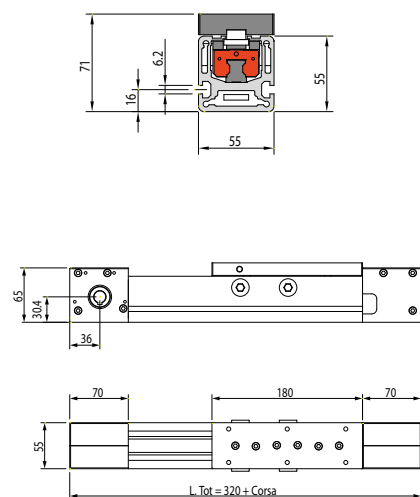
\* The belt breaking load is 5050 N.

\*\* The belt breaking load is 5050 N.

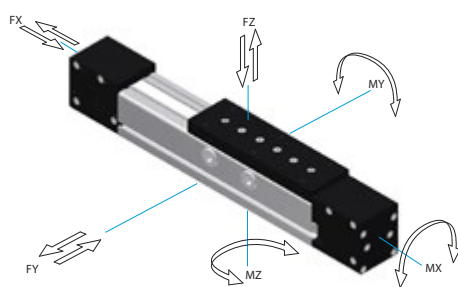
\* The belt breaking load is 5050 N.

\*\* The belt breaking load is 5050 N.

## AG55



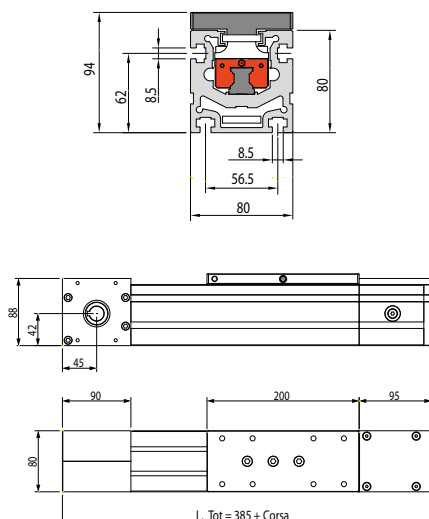
| Technical features          |              |
|-----------------------------|--------------|
| No. of shoes                | 2            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 12 - 14 mm |
| Pitch diameter              | Ø 41.38 mm   |
| Pulley                      | Z26 RPP5     |
| Belt                        | RPP5 18      |
| Travel mass 0 mm            | 3.425 Kg     |
| Travel mass every 100 mm    | 0.46 Kg      |



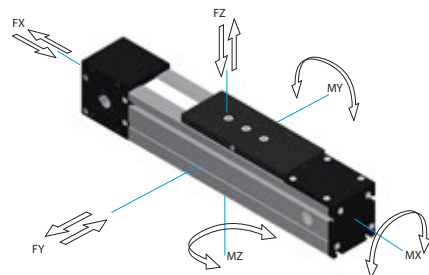
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 1240 N *        | MX = 120 Nm         |
| FY = 12630 N         | MY = 670 Nm         |
| FZ = 12630 N         | MZ = 670 Nm         |
| MINIMUM EMPTY TORQUE | 1.1 Nm              |
| Recommended loads    | Recommended moments |
| FX = 620 N           | MX = 24 Nm          |
| FY = 2526 N          | MY = 134 Nm         |
| FZ = 2526 N          | MZ = 134 Nm         |

\* The belt breaking load is 6050 N.

## AG80



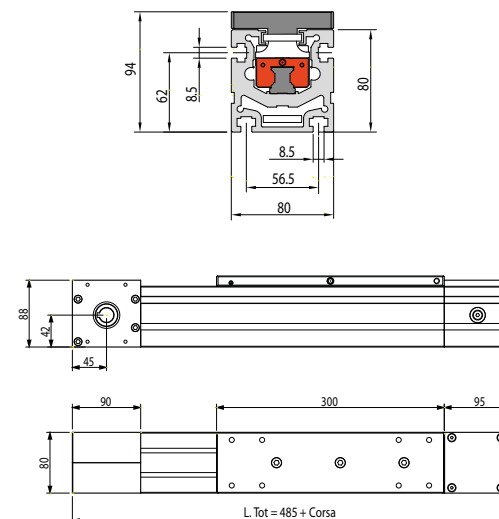
| Technical features          |                   |
|-----------------------------|-------------------|
| No. of shoes                | 2                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Max speed                   | 4.5 m/sec         |
| Standard hole with tab seat | Ø 14 - 16 - 19 mm |
| Complete male shaft         | Ø 25 mm           |
| Pitch diameter              | Ø 66.21mm         |
| Pulley                      | Z26 RPP8          |
| Belt                        | RPP8 30           |
| Travel mass 0 mm            | 6.961 Kg          |
| Travel mass every 100 mm    | 1.00 Kg           |



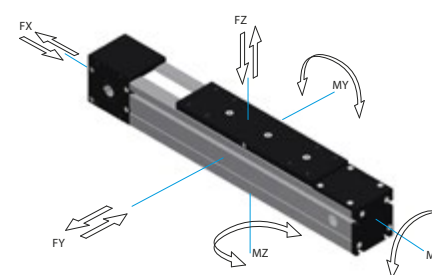
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 4510 N**        | MX = 388 Nm         |
| FY = 30450 N         | MY = 1780 Nm        |
| FZ = 30450 N         | MZ = 1780 Nm        |
| MINIMUM EMPTY TORQUE | 1.5 Nm              |
| Recommended loads    | Recommended moments |
| FX = 2250 N          | MX = 77 Nm          |
| FY = 6090 N          | MY = 356 Nm         |
| FZ = 6090 N          | MZ = 356 Nm         |

\*\* The belt breaking load is 18050 N.

## AG80L



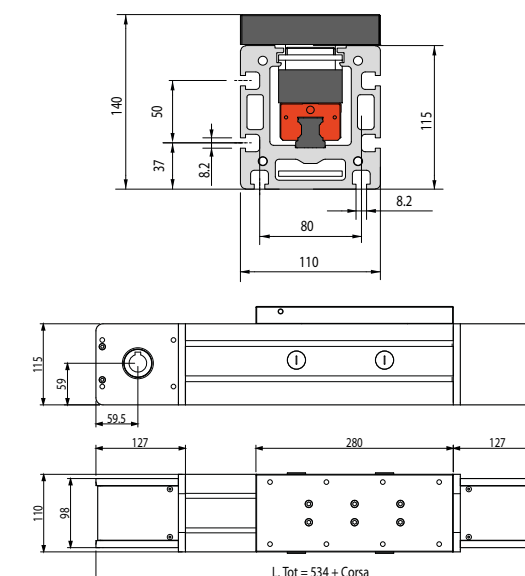
| Technical features          |                   |
|-----------------------------|-------------------|
| No. of shoes                | 2                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Max speed                   | 4.5 m/sec         |
| Standard hole with tab seat | Ø 14 - 16 - 19 mm |
| Complete male shaft         | Ø 25 mm           |
| Pitch diameter              | Ø 66.21mm         |
| Pulley                      | Z26 RPP8          |
| Belt                        | RPP8 30           |
| Travel mass 0 mm            | 8.731 Kg          |
| Travel mass every 100 mm    | 1.00 Kg           |



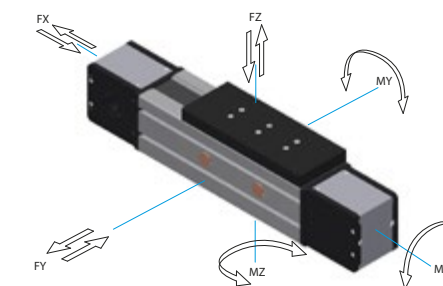
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 4510 N *        | MX = 388 Nm         |
| FY = 30450 N         | MY = 3300 Nm        |
| FZ = 30450 N         | MZ = 3300 Nm        |
| MINIMUM EMPTY TORQUE | 1.5 Nm              |
| Recommended loads    | Recommended moments |
| FX = 2250 N          | MX = 77 Nm          |
| FY = 6090 N          | MY = 660 Nm         |
| FZ = 6090 N          | MZ = 660 Nm         |

\* The belt breaking load is 18050 N.

## AG110



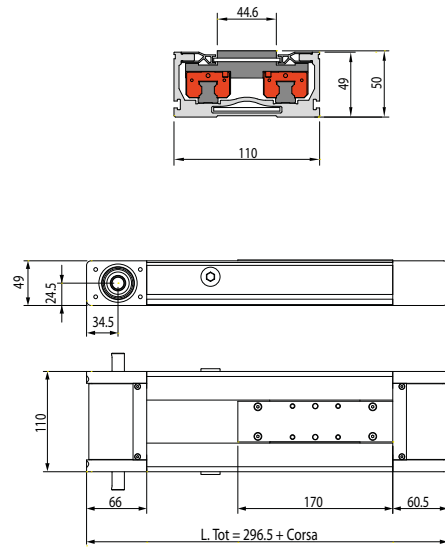
| Technical features          |                   |
|-----------------------------|-------------------|
| No. of shoes                | 2                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Max speed                   | 4.5 m/sec         |
| Standard hole with tab seat | Ø 14 - 19 - 25 mm |
| Complete male shaft         | Ø 25 - 32 - 40 mm |
| Pitch diameter              | Ø 95.49mm         |
| Pulley                      | Z30 AT10          |
| Belt                        | AT10 50           |
| Travel mass 0 mm            | 16.396 Kg         |
| Travel mass every 100 mm    | 1.69 Kg           |



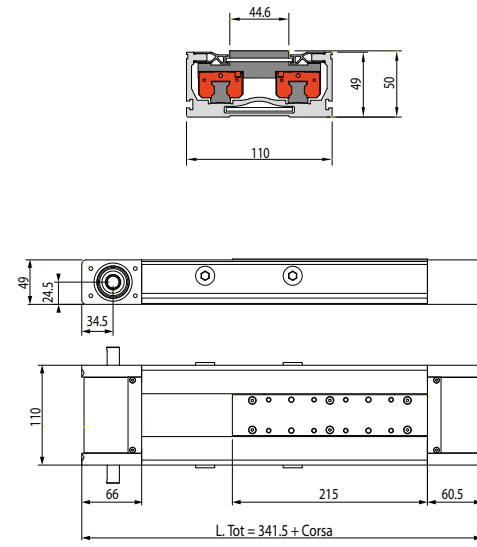
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 7670 N**        | MX = 518 Nm         |
| FY = 36900 N         | MY = 3638 Nm        |
| FZ = 36900 N         | MZ = 3638 Nm        |
| MINIMUM EMPTY TORQUE | 1.7 Nm              |
| Recommended loads    | Recommended moments |
| FX = 3835 N          | MX = 103 Nm         |
| FY = 7380 N          | MY = 727 Nm         |
| FZ = 7380 N          | MZ = 727 Nm         |

\*\* The belt breaking load is 30685 N.

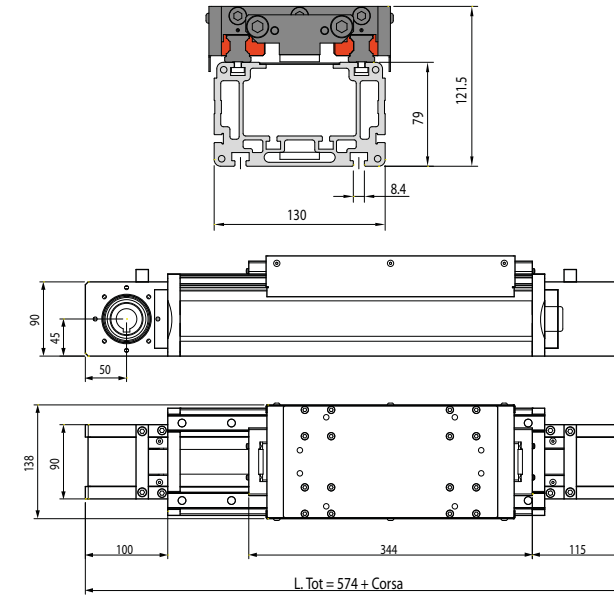
AG2C110



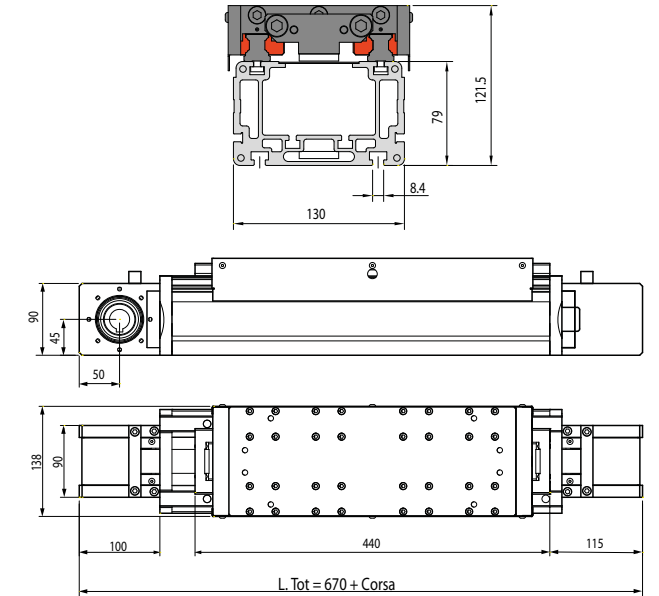
AG2C110L



AG2C130



AG2C130L



Technical features

|                           |            |
|---------------------------|------------|
| No. of shoes              | 2          |
| Positioning repeatability | +/- 0.1 mm |
| Max speed                 | 4.5 m/sec  |
| Complete male shaft       | Ø 14       |
| Pitch diameter            | Ø 38.2 mm  |
| Pulley                    | Z24 AT5    |
| Belt                      | AT5 50     |
| Travel mass 0 mm          | 3.348 Kg   |
| Travel mass every 100 mm  | 0.48 Kg    |

Technical features

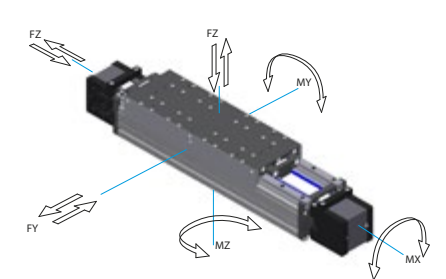
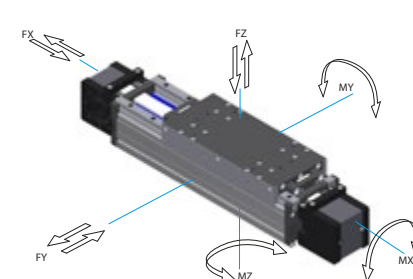
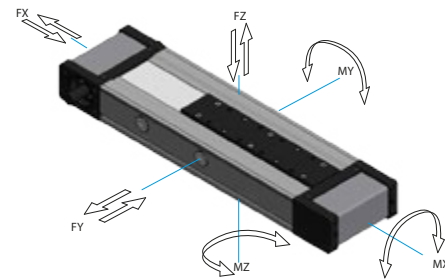
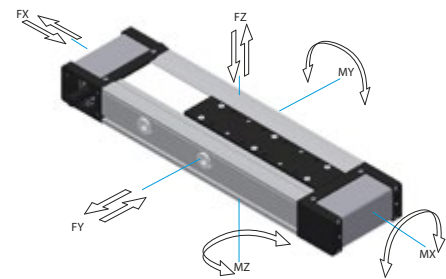
|                           |            |
|---------------------------|------------|
| No. of shoes              | 4          |
| Positioning repeatability | +/- 0.1 mm |
| Max speed                 | 4.5 m/sec  |
| Complete male shaft       | Ø 14       |
| Pitch diameter            | Ø 38.2 mm  |
| Pulley                    | Z24 AT5    |
| Belt                      | AT5 50     |
| Travel mass 0 mm          | 4.136 Kg   |
| Travel mass every 100 mm  | 0.48 Kg    |

Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 2.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 25         |
| Pitch diameter              | Ø 76.39 mm   |
| Pulley                      | Z30 RPP8     |
| Belt                        | RPP8 30      |
| Travel mass 0 mm            | 12.702 Kg    |
| Travel mass every 100 mm    | 1.33 Kg      |

Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 8            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 2.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 25         |
| Pitch diameter              | Ø 76.39 mm   |
| Pulley                      | Z30 RPP8     |
| Belt                        | RPP8 30      |
| Travel mass 0 mm            | 14.819 Kg    |
| Travel mass every 100 mm    | 1.33 Kg      |



| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3560 N * | MX = 468 Nm     |
| FY = 15600 N  | MY = 80 Nm      |
| FZ = 15600 N  | MZ = 80 Nm      |

|                      |         |
|----------------------|---------|
| MINIMUM EMPTY TORQUE | 1.05 Nm |
|----------------------|---------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1780 N       | MX = 93 Nm          |
| FY = 3120 N       | MY = 16 Nm          |
| FZ = 3120 N       | MZ = 16 Nm          |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 3560 N** | MX = 936 Nm     |
| FY = 31200 N  | MY = 2246 Nm    |
| FZ = 31200 N  | MZ = 2246 Nm    |

|                      |         |
|----------------------|---------|
| MINIMUM EMPTY TORQUE | 1.32 Nm |
|----------------------|---------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 1780 N       | MX = 187 Nm         |
| FY = 6240 N       | MY = 449 Nm         |
| FZ = 6240 N       | MZ = 449 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4510 N * | MX = 1800 Nm    |
| FY = 38280 N  | MY = 3368 Nm    |
| FZ = 38280 N  | MZ = 3368 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.7 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2255 N       | MX = 360 Nm         |
| FY = 7656 N       | MY = 673 Nm         |
| FZ = 7656 N       | MZ = 673 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4510 N** | MX = 2915 Nm    |
| FY = 62010 N  | MY = 5206 Nm    |
| FZ = 62010 N  | MZ = 5206 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 1.7 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2255 N       | MX = 583 Nm         |
| FY = 12402 N      | MY = 1041 Nm        |
| FZ = 12402 N      | MZ = 1041 Nm        |

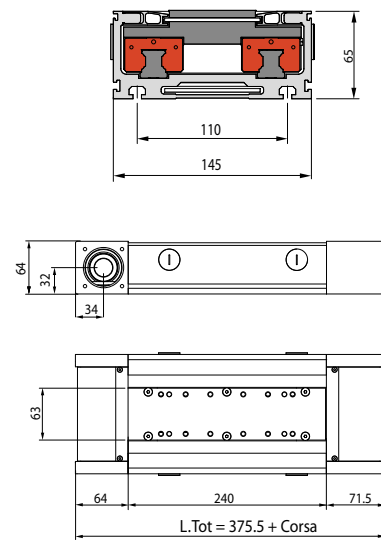
\* The belt breaking load is 14255.

\*\* The belt breaking load is 14255.

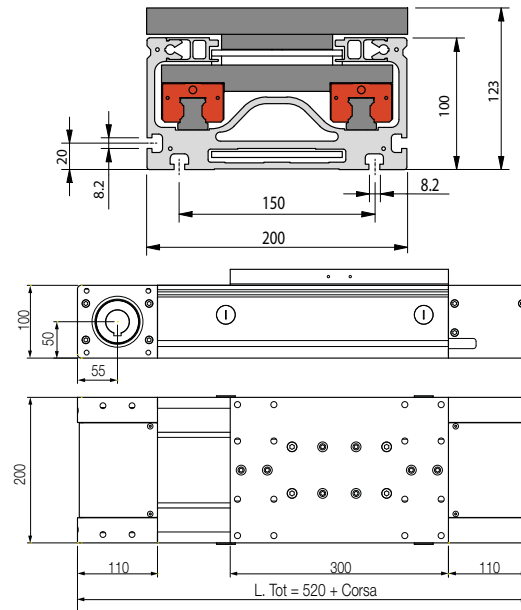
\* The belt breaking load is 18050 N.

\*\* The belt breaking load is 18050 N.

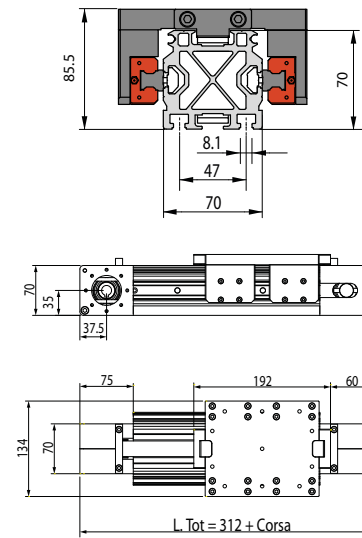
### AG2C145



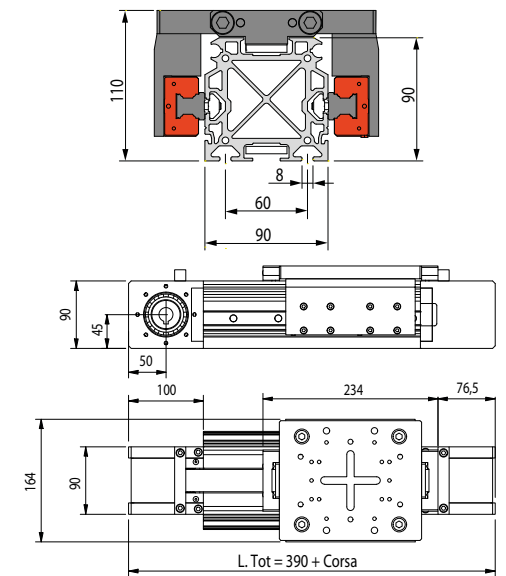
### AG2C200



### ELG70



### ELG90



#### Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 22 mm |
| Pitch diameter              | Ø 52.51 mm   |
| Pulley                      | Z33 AT5      |
| Belt                        | AT5 70       |
| Travel mass 0 mm            | 6.39 Kg      |
| Travel mass every 100 mm    | 0.64 Kg      |

#### Technical features

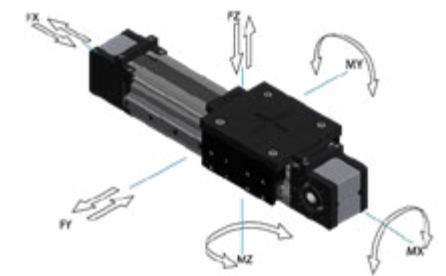
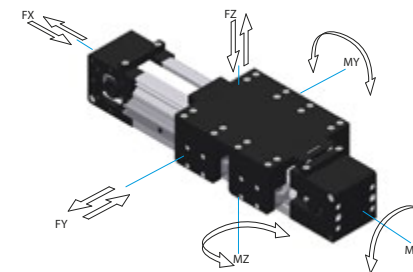
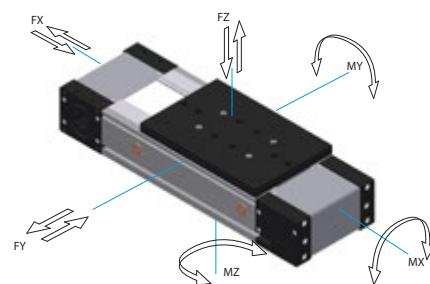
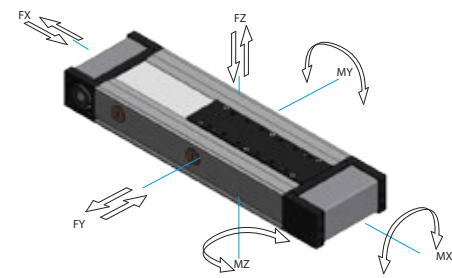
|                             |                   |
|-----------------------------|-------------------|
| No. of shoes                | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Max speed                   | 4.5 m/sec         |
| Standard hole with tab seat | Ø 19 - 25 - 32 mm |
| Pitch diameter              | Ø 79.58 mm        |
| Pulley                      | Z25 AT10          |
| Belt                        | AT10 100          |
| Travel mass 0 mm            | 26.261 Kg         |
| Travel mass every 100 mm    | 2.18 Kg           |

#### Technical features

|                             |            |
|-----------------------------|------------|
| No. of shoes                | 4          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 14 mm    |
| Complete male shaft         | Ø 14 mm    |
| Pitch diameter              | Ø 57.3mm   |
| Pulley                      | Z36 RPP5   |
| Belt                        | RPP5 22    |
| Travel mass 0 mm            | 5.916 Kg   |
| Travel mass every 100 mm    | 0.81 Kg    |

#### Technical features

|                             |                             |
|-----------------------------|-----------------------------|
| No. of shoes                | 4                           |
| Positioning repeatability   | +/- 0.1 mm                  |
| Max speed                   | 4.5 m/sec                   |
| Standard hole with tab seat | Ø 14 - 19 - 20 - 22 - 25 mm |
| Complete male shaft         | Ø 25 mm                     |
| Pitch diameter              | Ø 76.39mm                   |
| Pulley                      | Z30 RPP8                    |
| Belt                        | RPP8 30                     |
| Travel mass 0 mm            | 10.291 Kg                   |
| Travel mass every 100 mm    | 1.23 Kg                     |



| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4564 N * | MX = 2520 Nm    |
| FY = 45857 N  | MY = 3549 Nm    |
| FZ = 45857 N  | MZ = 3549 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 2.4 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2280 N       | MX = 504 Nm         |
| FY = 9171 N       | MY = 710 Nm         |
| FZ = 9171 N       | MZ = 710 Nm         |

| Maximum loads  | Maximum moments |
|----------------|-----------------|
| FX = 16625 N** | MX = 3900 Nm    |
| FY = 60000 N   | MY = 6000 Nm    |
| FZ = 60000 N   | MZ = 6000 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 2.5 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 8310 N       | MX = 780 Nm         |
| FY = 12000 N      | MY = 1200 Nm        |
| FZ = 12000 N      | MZ = 1200 Nm        |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 1510 N * | MX = 947 Nm     |
| FY = 20590 N  | MY = 926 Nm     |
| FZ = 20590 N  | MZ = 1440 Nm    |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 755 N        | MX = 189 Nm         |
| FY = 4118 N       | MY = 185 Nm         |
| FZ = 4118 N       | MZ = 288 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 4510 N** | MX = 3100 Nm    |
| FY = 37500 N  | MY = 2830 Nm    |
| FZ = 49000 N  | MZ = 2830 Nm    |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 2550 N       | MX = 620 Nm         |
| FY = 7500 N       | MY = 566 Nm         |
| FZ = 9800 N       | MZ = 566 Nm         |

\* The belt breaking load is 17346 N.

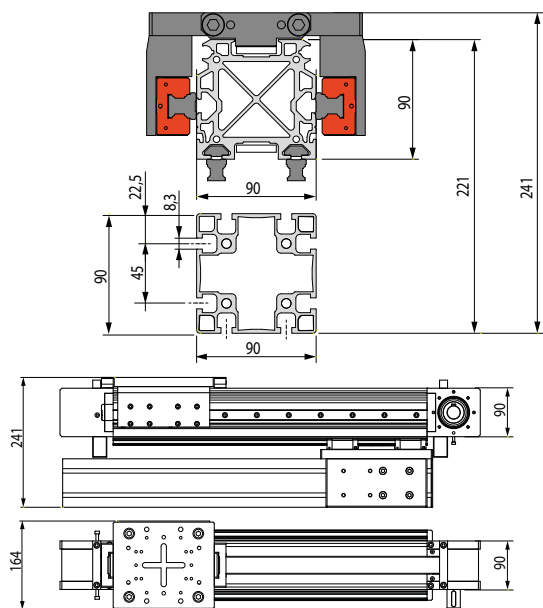
\*\* The belt breaking load is 63175 N.

\* The belt breaking load is 6045 N.

\*\* The belt breaking load is 18050 N.

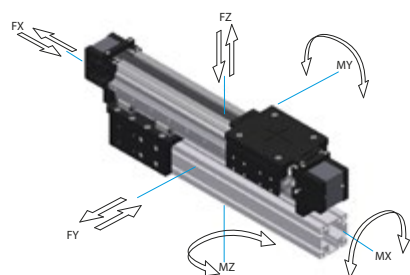


**ELG90T (TELESCOPIC)**



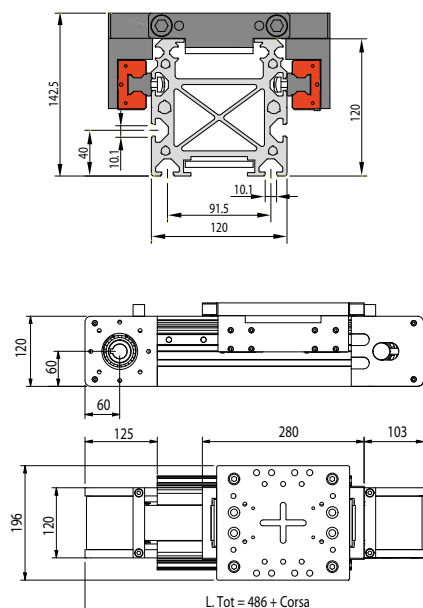
**Technical features**

|                             |                             |
|-----------------------------|-----------------------------|
| No. of shoes                | 4+4                         |
| Positioning repeatability   | +/- 0.1 mm                  |
| Max speed                   | +/- 4.5 m/sec               |
| Standard hole with tab seat | Ø 14 - 19 - 20 - 22 - 25 mm |
| Complete male shaft         | Ø 25 mm                     |
| Pitch diameter              | Ø 76.39mm                   |
| Pulley                      | Z30 RPP8                    |
| Belt                        | RPP8 30                     |
| Travel mass 0 mm            | 19.298 Kg                   |
| Travel mass every 100 mm    | 1.007 Kg                    |



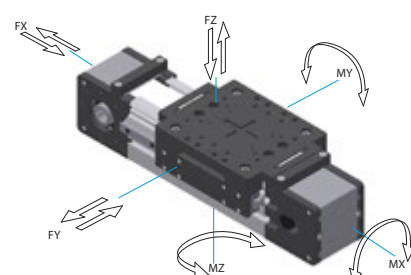
| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = - N             | MX = - Nm           |
| FY = - N             | MY = - Nm           |
| FZ = - N             | MZ = - Nm           |
| MINIMUM EMPTY TORQUE | - Nm                |
| Recommended loads    | Recommended moments |
| FX = - N             | MX = - Nm           |
| FY = - N             | MY = - Nm           |
| FZ = - N             | MZ = - Nm           |

**ELG120**



**Technical features**

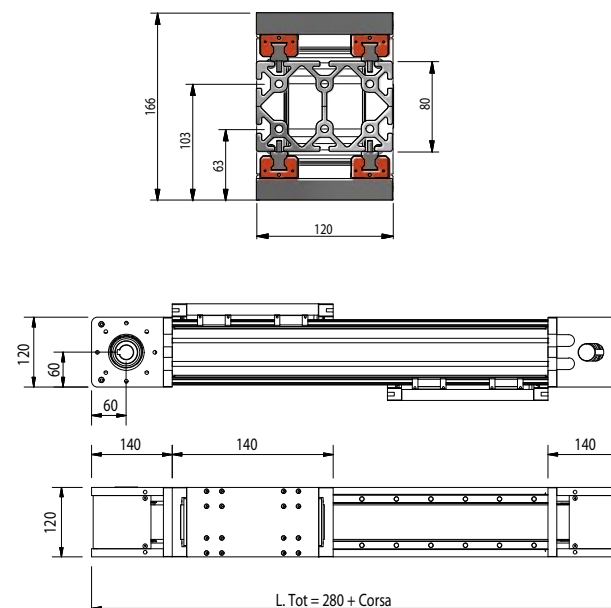
|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 35 mm      |
| Pitch diameter              | Ø 101.86mm   |
| Pulley                      | Z40 RPP8     |
| Belt                        | RPP8 60      |
| Travel mass 0 mm            | 21.315 Kg    |
| Travel mass every 100 mm    | 1.78 Kg      |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 9020 N**        | MX = 3740 Nm        |
| FY = 38170 N         | MY = 3770 Nm        |
| FZ = 49600 N         | MZ = 3770 Nm        |
| MINIMUM EMPTY TORQUE | 1.7 Nm              |
| Recommended loads    | Recommended moments |
| FX = 4510 N          | MX = 748 Nm         |
| FY = 7634 N          | MY = 754 Nm         |
| FZ = 9920 N          | MZ = 754 Nm         |

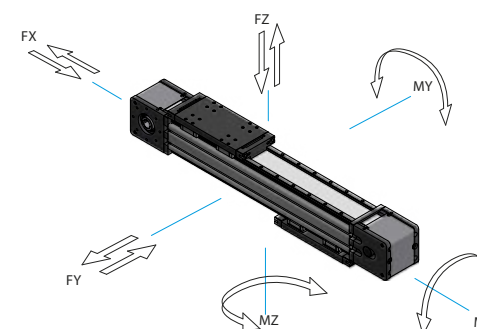
\*\* The belt breaking load is 36822 N.

**ELG120C**



**Technical features**

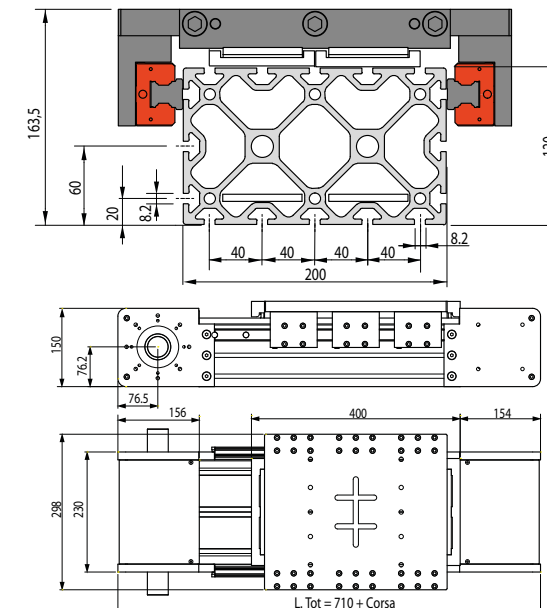
|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Pitch diameter              | Ø 101.86mm   |
| Pulley                      | Z40 RPP8     |
| Belt                        | RPP8 60      |
| Travel mass 0 mm            | 21.958 Kg    |
| Travel mass every 100 mm    | 1.54 Kg      |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 9020 N**        | MX = 1041 Nm        |
| FY = 26030 N         | MY = 1744 Nm        |
| FZ = 26030 N         | MZ = 1744 Nm        |
| MINIMUM EMPTY TORQUE | 1.7 Nm              |
| Recommended loads    | Recommended moments |
| FX = 4510 N          | MX = 208 Nm         |
| FY = 5206 N          | MY = 349 Nm         |
| FZ = 5206 N          | MZ = 349 Nm         |

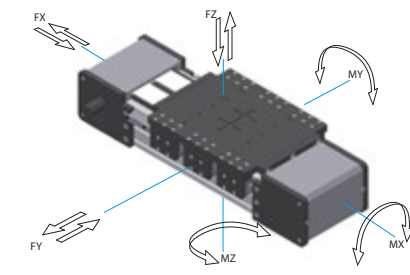
\*\* The belt breaking load is 36822 N.

**ELG200**



**Technical features**

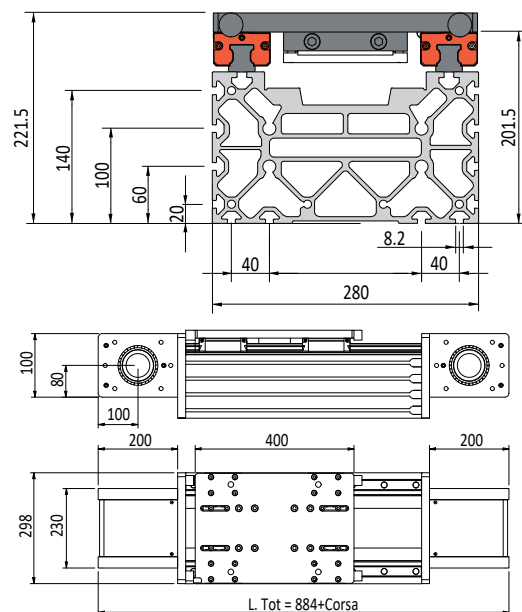
|                           |              |
|---------------------------|--------------|
| No. of shoes              | 6            |
| Positioning repeatability | +/- 0.1 mm   |
| Max speed                 | 4.5 m/sec    |
| Complete male shaft       | Ø 32 - 40 mm |
| Pitch diameter            | Ø 112.05mm   |
| Pulley                    | Z44 RPP8     |
| Belts                     | 2 x RPP8 60  |
| Travel mass 0 mm          | 48.957 Kg    |
| Travel mass every 100 mm  | 2.84 Kg      |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 18408 N *       | MX = 6922 Nm        |
| FY = 60192 N         | MY = 5718 Nm        |
| FZ = 60192 N         | MZ = 5718 Nm        |
| MINIMUM EMPTY TORQUE | 3 Nm                |
| Recommended loads    | Recommended moments |
| FX = 9204 N          | MX = 1384 Nm        |
| FY = 12038 N         | MY = 1143 Nm        |
| FZ = 12038 N         | MZ = 1143 Nm        |

\* The belt breaking load is 36822 N (value refers to the single belt).

**ELG280X**

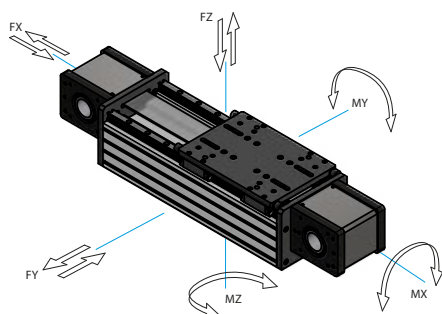


**Technical features**

|                             |            |
|-----------------------------|------------|
| No. of shoes                | 4          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 60 mm    |
| Pitch diameter              | Ø 95.49mm  |
| Pulley                      | Z30 AT10   |
| Belt                        | AT10 100   |

|                          |         |
|--------------------------|---------|
| Travel mass 0 mm         | 60.5 Kg |
| Travel mass every 100 mm | 4.65 Kg |

AVAILABLE WITH SCREW AND RACK HANDLING. (Contact the technical department)



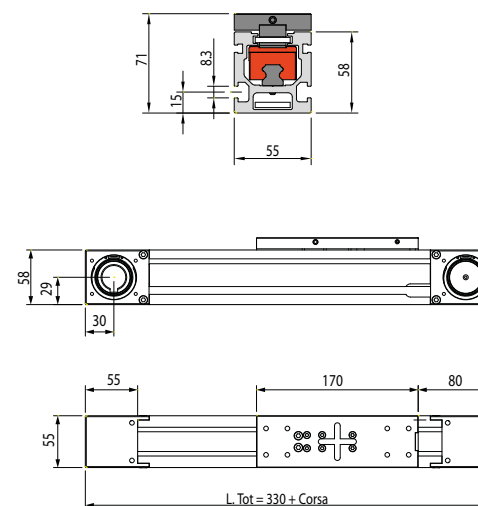
| Maximum loads  | Maximum moments |
|----------------|-----------------|
| FX = 16625 N * | MX = 13206 Nm   |
| FY = 121440 N  | MY = 15787 Nm   |
| FZ = 121440 N  | MZ = 15787 Nm   |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | 6 Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 8310 N       | MX = 2641 Nm        |
| FY = 24288 N      | MY = 3157 Nm        |
| FZ = 24288 N      | MZ = 3157 Nm        |

\* The belt breaking load is 63175 N

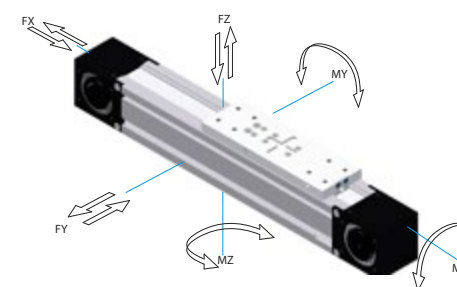
**MDR55A**



**Technical features**

|                             |                              |
|-----------------------------|------------------------------|
| No. of shoes                | 1                            |
| Positioning repeatability   | +/- 0.1 mm                   |
| Max speed                   | 2 m/sec                      |
| Standard hole with tab seat | Ø 12-14-15-16-18-19-20-25 mm |
| Pitch diameter              | Ø 47.75 mm                   |
| Pulley                      | Z30 RPP5                     |
| Belt                        | RPP5 25                      |

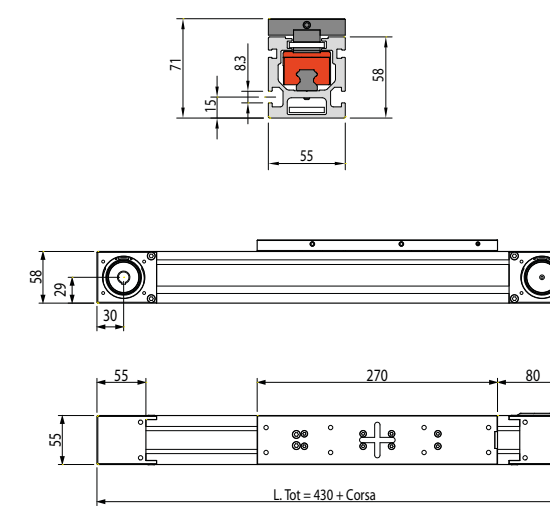
|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 3.254 Kg |
| Travel mass every 100 mm | 0.49 Kg  |



| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 1372                    | MX = 24                         |
| FY = 2276                    | MY = 20                         |
| FZ = 2276                    | MZ = 20                         |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

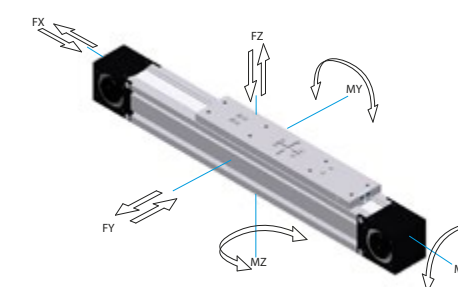
**MDR55A-2P**



**Technical features**

|                             |                              |
|-----------------------------|------------------------------|
| No. of shoes                | 2                            |
| Positioning repeatability   | +/- 0.1 mm                   |
| Max speed                   | 2 m/sec                      |
| Standard hole with tab seat | Ø 12-14-15-16-18-19-20-25 mm |
| Pitch diameter              | Ø 47.75 mm                   |
| Pulley                      | Z30 RPP5                     |
| Belt                        | RPP5 25                      |

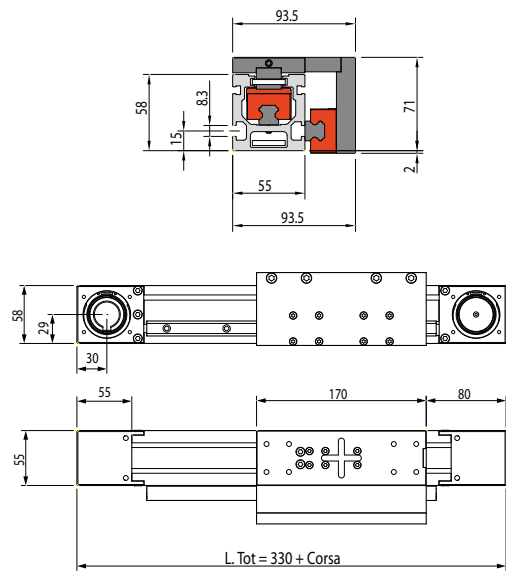
|                          |          |
|--------------------------|----------|
| Travel mass 0 mm         | 4.724 Kg |
| Travel mass every 100 mm | 0.63 Kg  |



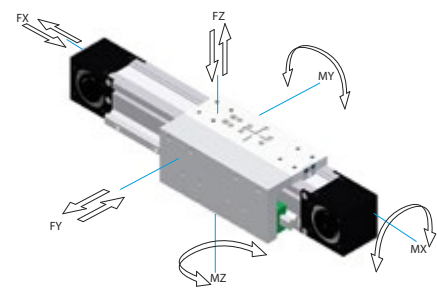
| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 1372                    | MX = 48                         |
| FY = 4552                    | MY = 228                        |
| FZ = 4552                    | MZ = 228                        |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

**MDR55A-3P**

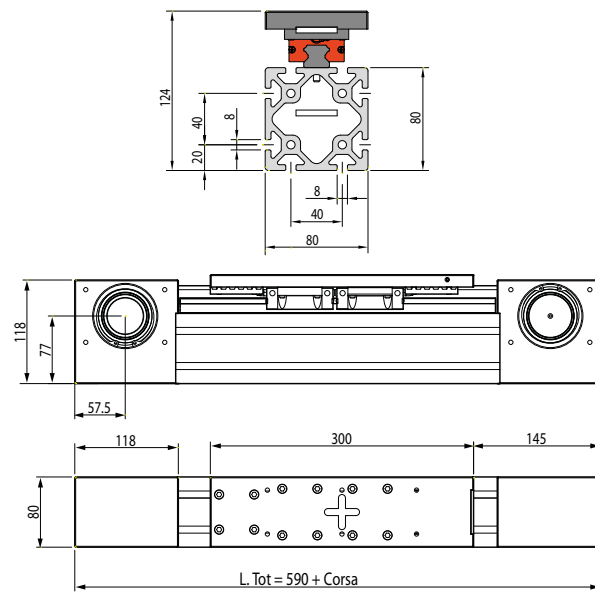


| Technical features          |                              |
|-----------------------------|------------------------------|
| No. of shoes                | 3                            |
| Positioning repeatability   | +/- 0.1 mm                   |
| Max speed                   | 2 m/sec                      |
| Standard hole with tab seat | Ø 12-14-15-16-18-19-20-25 mm |
| Pitch diameter              | Ø 47.75mm                    |
| Pulley                      | Z30 RPP5                     |
| Belt                        | RPP5 25                      |
| Travel mass 0 mm            | 4.534 Kg                     |
| Travel mass every 100 mm    | 0.90 Kg                      |

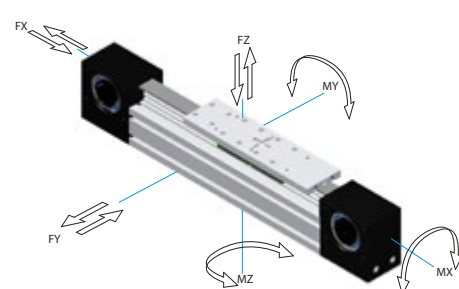


| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 1372                    | MX = 96                         |
| FY = 6828                    | MY = 361                        |
| FZ = 6828                    | MZ = 391                        |
| MINIMUM EMPTY TORQUE         | - Nm                            |

**MDRE80-220**

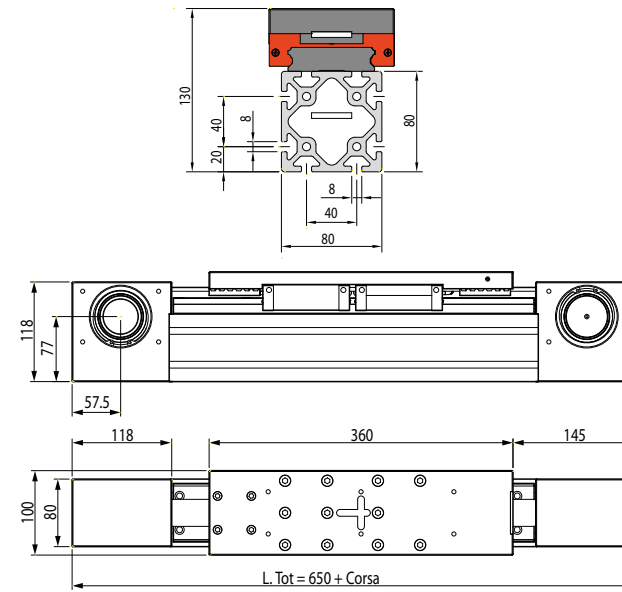


| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 2          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 2 m/sec    |
| Standard hole with tab seat | Ø 30 mm    |
| Pitch diameter              | Ø 66.85mm  |
| Pulley                      | Z21 AT10   |
| Belt                        | AT10 32    |
| Travel mass 0 mm            | 11.998 Kg  |
| Travel mass every 100 mm    | 0.68 Kg    |

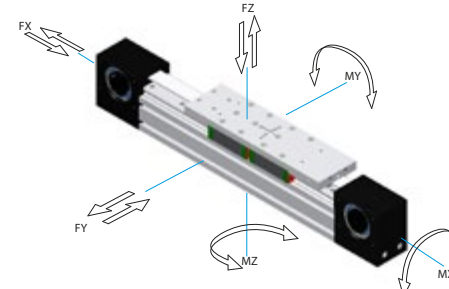


| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 3608                    | MX = 108                        |
| FY = 7100                    | MY = 284                        |
| FZ = 7100                    | MZ = 284                        |
| MINIMUM EMPTY TORQUE         | - Nm                            |

**MDRE80-235**

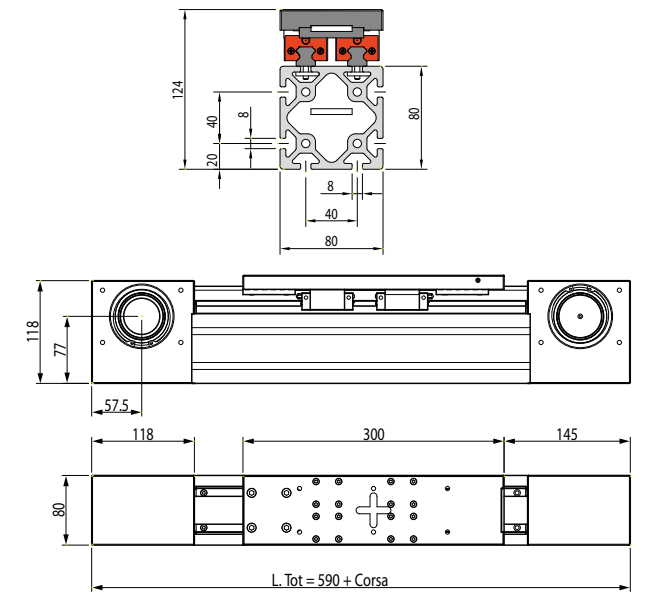


| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 2          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 2 m/sec    |
| Standard hole with tab seat | Ø 30 mm    |
| Pitch diameter              | Ø 66.85mm  |
| Pulley                      | Z21 AT10   |
| Belt                        | AT10 32    |
| Travel mass 0 mm            | 15.290 Kg  |
| Travel mass every 100 mm    | 0.69 Kg    |

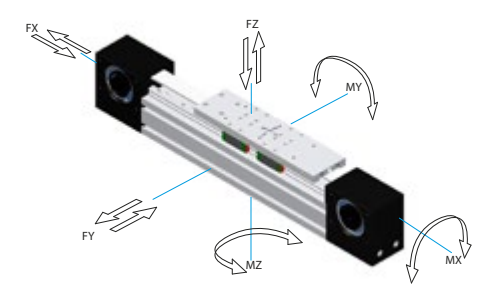


| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 3608                    | MX = 640                        |
| FY = 11920                   | MY = 656                        |
| FZ = 11920                   | MZ = 656                        |
| MINIMUM EMPTY TORQUE         | - Nm                            |

**MDRE80-415**

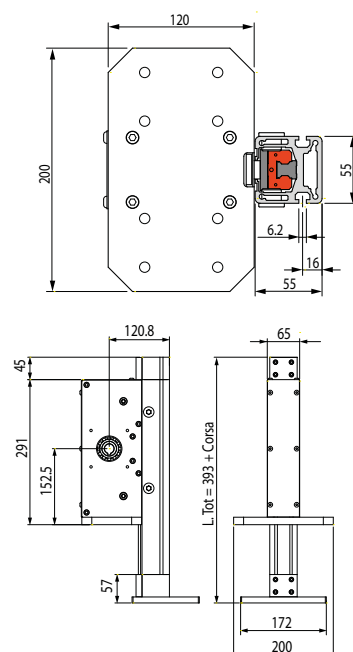


| Technical features          |            |
|-----------------------------|------------|
| No. of shoes                | 4          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 2 m/sec    |
| Standard hole with tab seat | Ø 30 mm    |
| Pitch diameter              | Ø 66.85mm  |
| Pulley                      | Z21 AT10   |
| Belt                        | AT10 32    |
| Travel mass 0 mm            | 12.169 Kg  |
| Travel mass every 100 mm    | 0.68 Kg    |



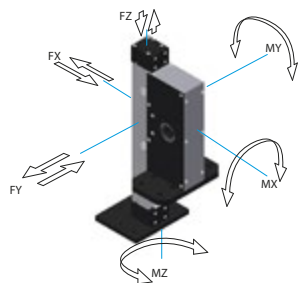
| Maximum applicable loads (N) | Allowable twisting moments (Nm) |
|------------------------------|---------------------------------|
| FX = 3608                    | MX = 182                        |
| FY = 9104                    | MY = 391                        |
| FZ = 9104                    | MZ = 432                        |
| MINIMUM EMPTY TORQUE         | - Nm                            |

AGZ55



## Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 2            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 14 - 19 mm |
| Pitch diameter              | Ø 63.69mm    |
| Pulley                      | Z20 AT 10    |
| Belt                        | AT10 25      |
| Travel mass 0 mm            | 9.207 Kg     |
| Travel mass every 100 mm    | 0.45 Kg      |



## Maximum loads

|              |             |
|--------------|-------------|
| FX = 12630 N | MX = 670 Nm |
| FY = 12630 N | MY = 670 Nm |
| FZ = 3610 N* | MZ = 120 Nm |

MINIMUM EMPTY TORQUE

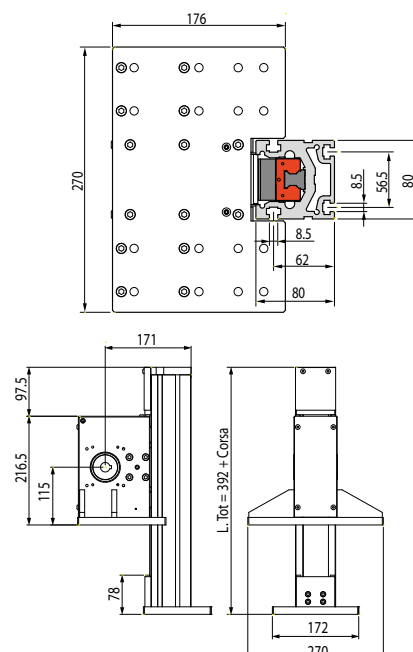
2.9 Nm

## Recommended loads

|             |             |
|-------------|-------------|
| FX = 2526 N | MX = 134 Nm |
| FY = 2526 N | MY = 134 Nm |
| FZ = 1805 N | MZ = 24 Nm  |

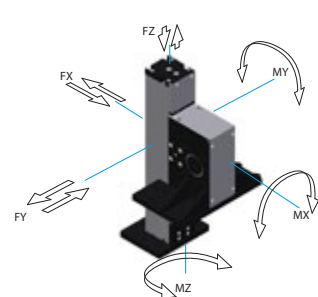
\* The belt breaking load is 14440 N.

AGZ80



## Technical features

|                             |            |
|-----------------------------|------------|
| No. of shoes                | 2          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 19 mm    |
| Complete male shaft         | Ø 25 mm    |
| Pitch diameter              | Ø 76.39mm  |
| Pulley                      | Z24 AT10   |
| Belt                        | AT10 45    |
| Travel mass 0 mm            | 14.934 Kg  |
| Travel mass every 100 mm    | 0.94 Kg    |



## Maximum loads

|               |              |
|---------------|--------------|
| FX = 30450 N  | MX = 1780 Nm |
| FY = 30450 N  | MY = 1780 Nm |
| FZ = 7670 N** | MZ = 388 Nm  |

MINIMUM EMPTY TORQUE

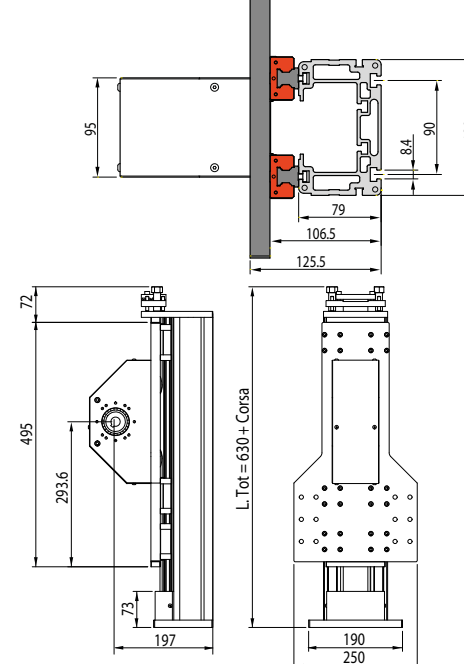
3.5 Nm

## Recommended loads

|             |             |
|-------------|-------------|
| FX = 6090 N | MX = 356 Nm |
| FY = 6090 N | MY = 356 Nm |
| FZ = 3835 N | MZ = 77 Nm  |

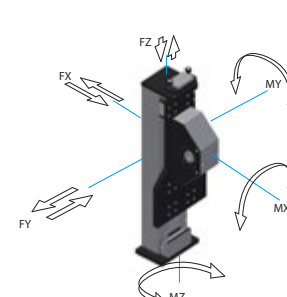
\*\* The belt breaking load is 30685 N.

AGZ130



## Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 6            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 2.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 32 mm      |
| Pitch diameter              | Ø 76.39mm    |
| Pulley                      | Z24 AT10     |
| Belt                        | AT10 50      |
| Travel mass 0 mm            | 20.698 Kg    |
| Travel mass every 100 mm    | 1.25 Kg      |



## Maximum loads

|              |               |
|--------------|---------------|
| FX = 62040 N | MX = 10100 Nm |
| FY = 62040 N | MY = 10100 Nm |
| FZ = 7670 N* | MZ = 2915 Nm  |

MINIMUM EMPTY TORQUE

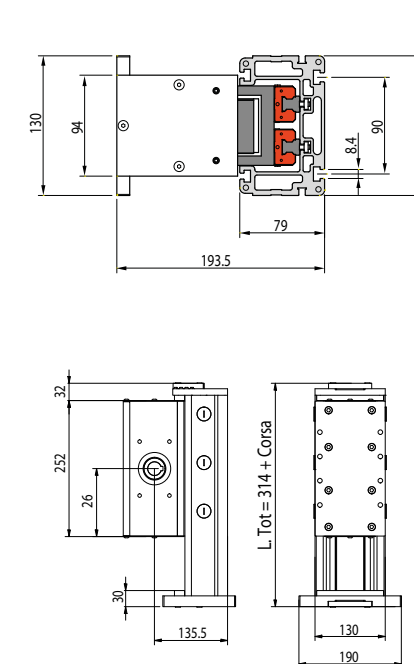
3.7 Nm

## Recommended loads

|              |              |
|--------------|--------------|
| FX = 12408 N | MX = 2020 Nm |
| FY = 12408 N | MY = 2020 Nm |
| FZ = 3835 N  | MZ = 583 Nm  |

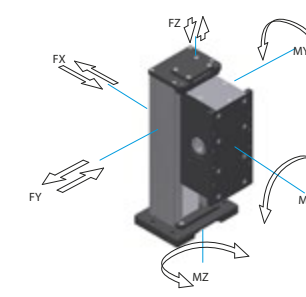
\* The belt breaking load is 30685 N.

AGZ130C



## Technical features

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 6            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 32 mm      |
| Pitch diameter              | Ø 76.39mm    |
| Pulley                      | Z24 AT10     |
| Belt                        | AT10 50      |
| Travel mass 0 mm            | 14.425 Kg    |
| Travel mass every 100 mm    | 1.12 Kg      |



## Maximum loads

|               |              |
|---------------|--------------|
| FX = 25740 N  | MX = 1894 Nm |
| FY = 25740 N  | MY = 1894 Nm |
| FZ = 7670 N** | MZ = 515 Nm  |

MINIMUM EMPTY TORQUE

- Nm

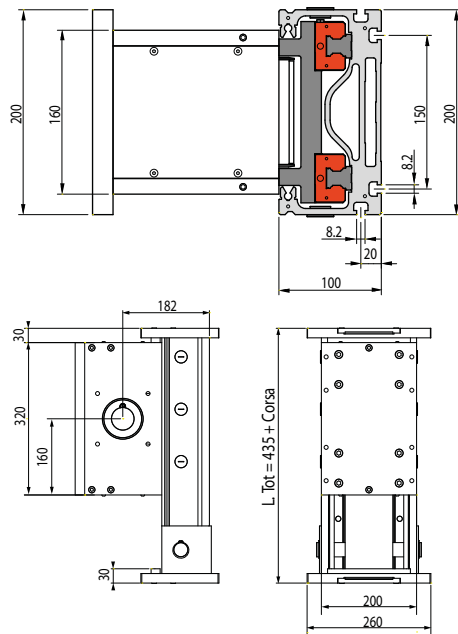
## Recommended loads

|             |             |
|-------------|-------------|
| FX = 5148 N | MX = 379 Nm |
| FY = 5148 N | MY = 379 Nm |
| FZ = 3677 N | MZ = 103 Nm |

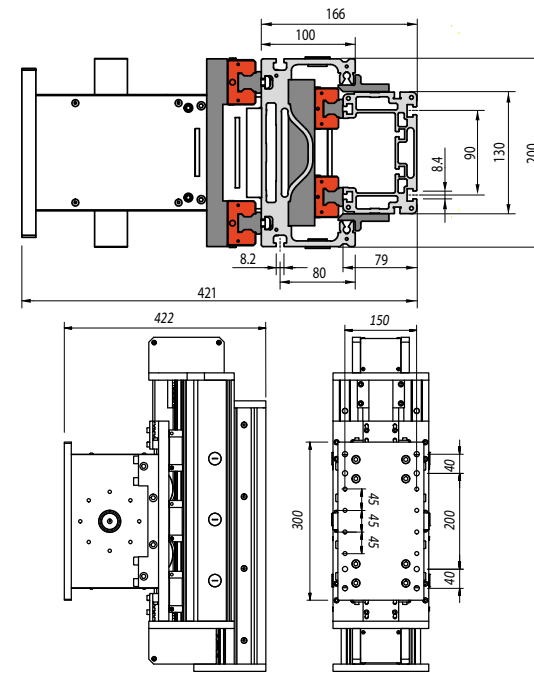
\*\* The belt breaking load is 30685 N.



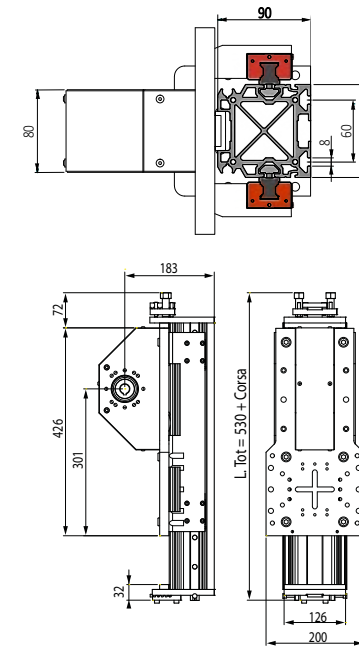
**AGZ200**



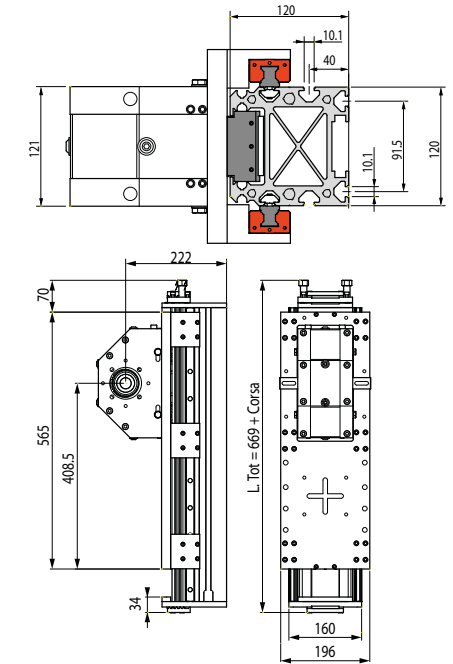
**AGZ200T (TELESCOPIC)**



**ELGZ90**



**ELGZ120**



**Technical features**

|                             |            |
|-----------------------------|------------|
| No. of shoes                | 6          |
| Positioning repeatability   | +/- 0.1 mm |
| Max speed                   | 4.5 m/sec  |
| Standard hole with tab seat | Ø 47 mm    |
| Pitch diameter              | Ø 101.86mm |
| Pulley                      | Z32 AT10   |
| Belt                        | AT10 100   |
| Travel mass 0 mm            | 46.051 Kg  |
| Travel mass every 100 mm    | 2.17 Kg    |

**Technical features**

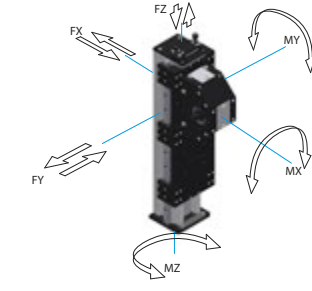
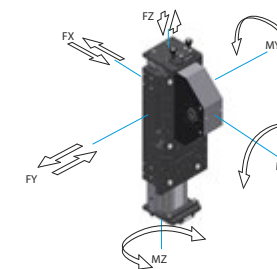
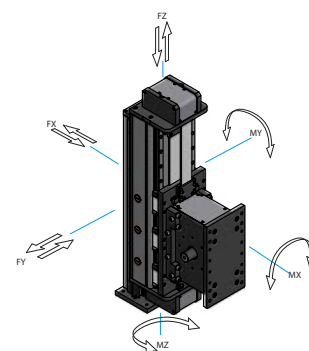
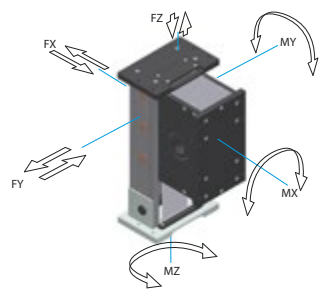
|                           |                     |
|---------------------------|---------------------|
| No. of shoes              | 6+6                 |
| Positioning repeatability | +/- 0.1 mm          |
| Max speed                 | 4 m/sec             |
| Complete male shaft       | Ø 30 - 35 mm        |
| Pitch diameter            | Ø 101.86mm          |
| Pulley                    | Z32 AT10            |
| Belts                     | AT10 50 and AT10 75 |
| Travel mass 0 mm          | 58.141 Kg           |
| Travel mass every 100 mm  | 1.726 Kg            |

**Technical features**

|                             |              |
|-----------------------------|--------------|
| No. of shoes                | 4            |
| Positioning repeatability   | +/- 0.1 mm   |
| Max speed                   | 4.5 m/sec    |
| Standard hole with tab seat | Ø 19 - 25 mm |
| Complete male shaft         | Ø 25 mm      |
| Pitch diameter              | Ø 76.39mm    |
| Pulley                      | Z30 RPP8     |
| Belt                        | RPP8 30      |
| Travel mass 0 mm            | 22.189 Kg    |
| Travel mass every 100 mm    | 1.23 Kg      |

**Technical features**

|                           |            |
|---------------------------|------------|
| No. of shoes              | 6          |
| Positioning repeatability | +/- 0.1 mm |
| Max speed                 | 2.5 m/sec  |
| Complete male shaft       | Ø 25 mm    |
| Pitch diameter            | Ø 76.39mm  |
| Pulley                    | Z30 RPP8   |
| Belt                      | RPP8 60    |
| Travel mass 0 mm          | 29.899 Kg  |
| Travel mass every 100 mm  | 1.76 Kg    |



| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 75000 N  | MX = 6000 Nm    |
| FY = 75000 N  | MY = 6000 Nm    |
| FZ = 16625 N* | MZ = 4875 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 2.5 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 15000 N      | MX = 1200 Nm        |
| FY = 15000 N      | MY = 1200 Nm        |
| FZ = 8310 N       | MZ = 975 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 38280 N  | MX = 3368 Nm    |
| FY = 38280 N  | MY = 3368 Nm    |
| FZ = 7670 N** | MZ = 1800 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 3.7 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 7656 N       | MX = 673 Nm         |
| FY = 7656 N       | MY = 673 Nm         |
| FZ = 3835 N       | MZ = 360 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 62040 N  | MX = 8660 Nm    |
| FY = 47700 N  | MY = 8660 Nm    |
| FZ = 4510 N*  | MZ = 3940 Nm    |

|                      |      |
|----------------------|------|
| MINIMUM EMPTY TORQUE | - Nm |
|----------------------|------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 12408 N      | MX = 1732 Nm        |
| FY = 9540 N       | MY = 1732 Nm        |
| FZ = 2550 N       | MZ = 788 Nm         |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = 62040 N  | MX = 10220 Nm   |
| FY = 47720 N  | MY = 10220 Nm   |
| FZ = 7670 N** | MZ = 4680 Nm    |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 4.2 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = 12408 N      | MX = 2044 Nm        |
| FY = 9544 N       | MY = 2044 Nm        |
| FZ = 3835 N       | MZ = 936 Nm         |

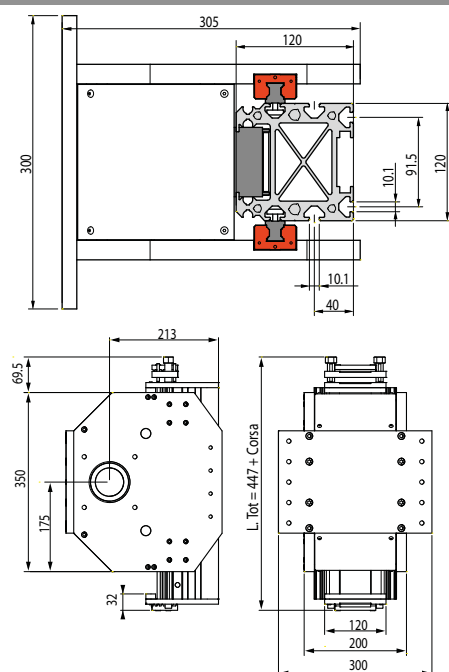
\* The belt breaking load is 63175 N.

\*\* The belt breaking load is 30685 N.

\* The belt breaking load is 18050 N.

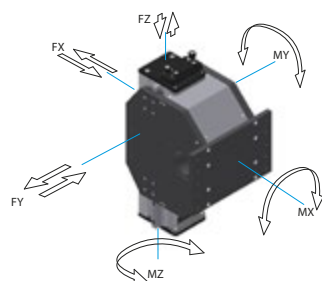
\*\* The belt breaking load is 30685 N.

ELGZ120C



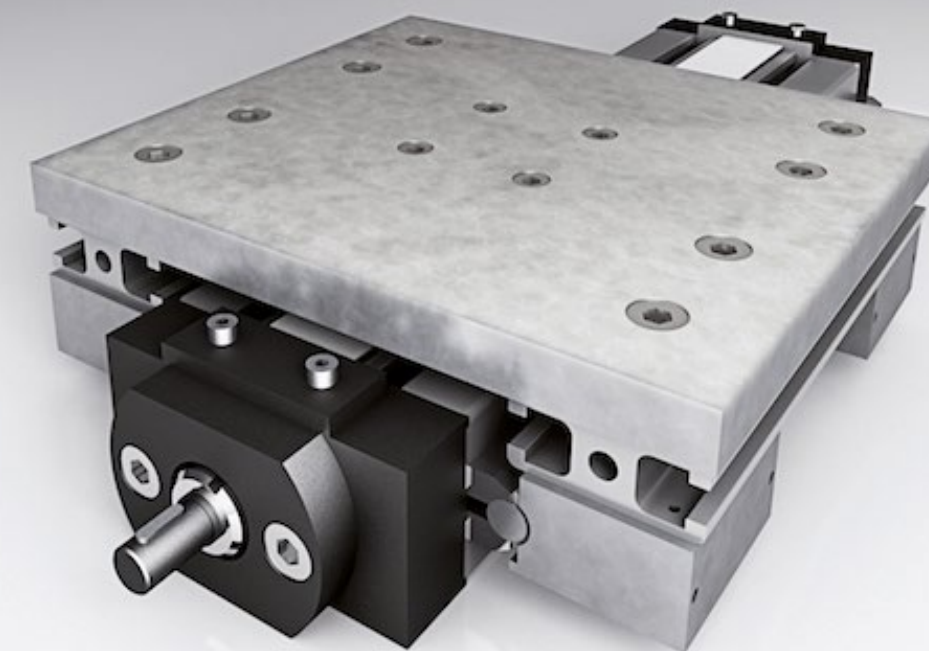
## Technical features

|                             |                   |
|-----------------------------|-------------------|
| No. of shoes                | 4                 |
| Positioning repeatability   | +/- 0.1 mm        |
| Max speed                   | 4.5 m/sec         |
| Standard hole with tab seat | Ø 32 - 47 - 55 mm |
| Pitch diameter              | Ø 91.67mm         |
| Pulley                      | Z36 RPP8          |
| Belt                        | RPP8 60           |
| Travel mass 0 mm            | 31.111 Kg         |
| Travel mass every 100 mm    | 1.70 Kg           |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 60000 N         | MX = 8010 Nm        |
| FY = 60000 N         | MY = 8010 Nm        |
| FZ = 9020 N *        | MZ = 4350 Nm        |
| MINIMUM EMPTY TORQUE | 4.2 Nm              |
| Recommended loads    | Recommended moments |
| FX = 12000 N         | MX = 1602 Nm        |
| FY = 12000 N         | MY = 1062 Nm        |
| FZ = 4510 N          | MZ = 870 Nm         |

\* The belt breaking load is 36822 N.



## LINEAR MODULES SCREW DRIVEN

Sliding wheels/ ELV Series

The ELV series is characterized by sliding on wheels and drive through trapezoidal screw. It is indicated for all those applications where particular positioning precision and high dynamics are not required.

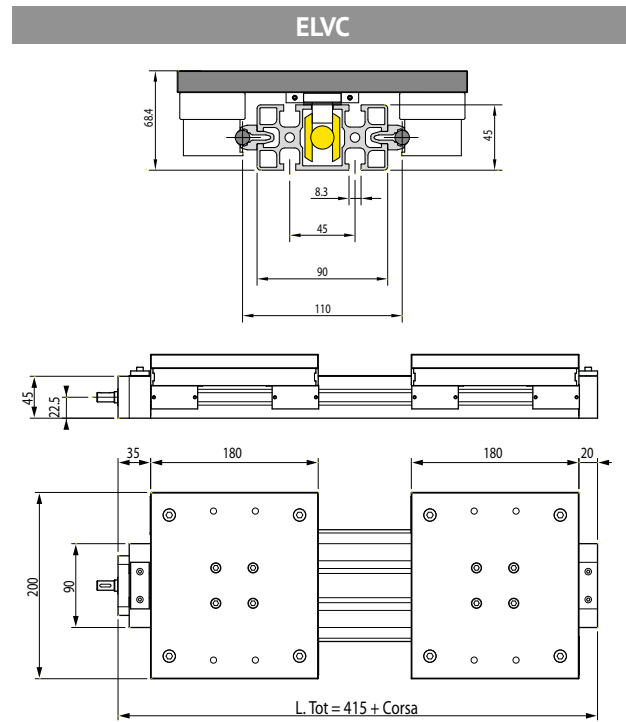
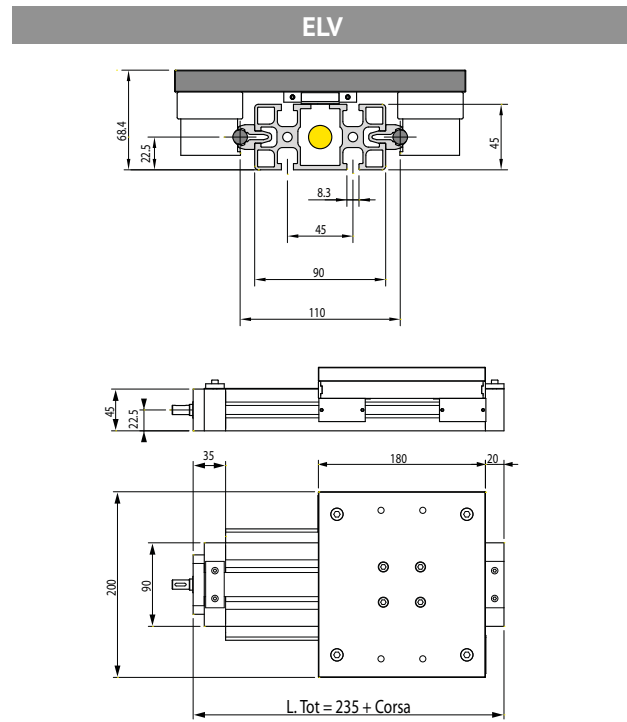
The ELVC series with right/left trapezoidal screw allows a single motor to obtain a counterposed movement of the cars.

### OPTIONS

- motor connection preparation
- additional holes
- fixing accessories
- possibility of anti-corrosion treatments

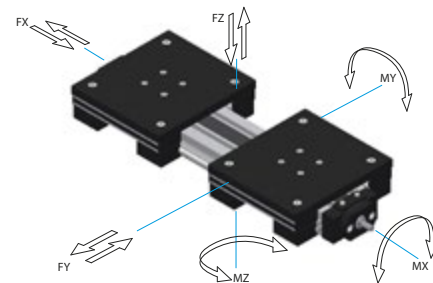
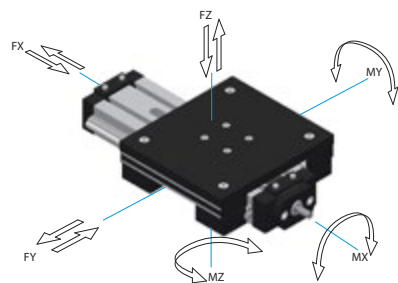
All linear modules are supplied assembled, without motors.

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. **Always contact the technical department to verify the application.**



| Technical features        |            |
|---------------------------|------------|
| No. of wheels             | 4          |
| Positioning repeatability | +/- 0.5 mm |
| Shank diameter            | Ø 10 mm    |
| Screw                     | TPN 16x4   |
| Travel mass 0 mm          | 4.103 Kg   |
| Travel mass every 100 mm  | 0.49 Kg    |

| Technical features        |            |
|---------------------------|------------|
| No. of wheels             | 4          |
| Positioning repeatability | +/- 0.5 mm |
| Shank diameter            | Ø 10 mm    |
| Screw                     | TPN 16x4   |
| Travel mass 0 mm          | 7.546 Kg   |
| Travel mass every 100 mm  | 0.49 Kg    |



| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = - N      | MX = 140 Nm     |
| FY = 2100 N   | MY = 120 Nm     |
| FZ = 1200 N   | MZ = 220 Nm     |

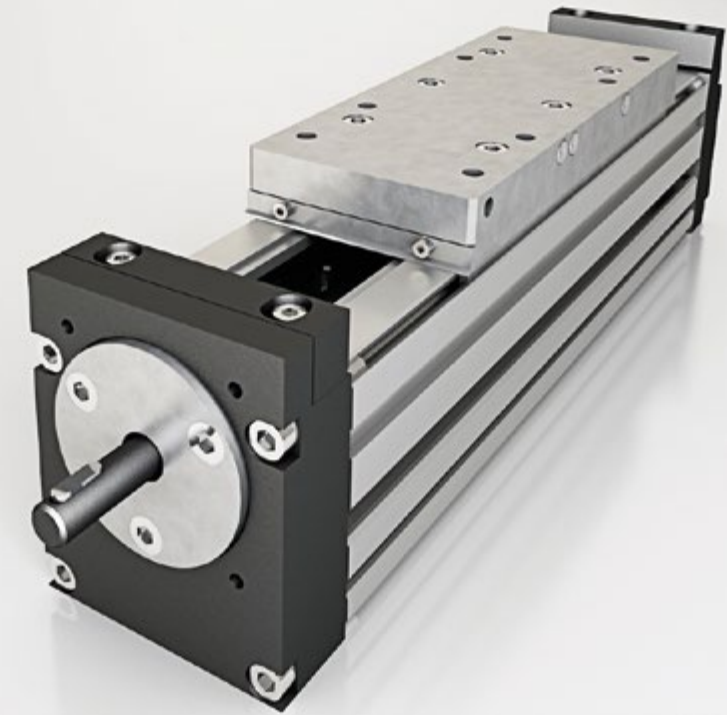
|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 0.2 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = - N          | MX = 28 Nm          |
| FY = 420 N        | MY = 24 Nm          |
| FZ = 240 N        | MZ = 44 Nm          |

| Maximum loads | Maximum moments |
|---------------|-----------------|
| FX = - N      | MX = 140 Nm     |
| FY = 2100 N   | MY = 120 Nm     |
| FZ = 1200 N   | MZ = 220 Nm     |

|                      |        |
|----------------------|--------|
| MINIMUM EMPTY TORQUE | 0.2 Nm |
|----------------------|--------|

| Recommended loads | Recommended moments |
|-------------------|---------------------|
| FX = - N          | MX = 28 Nm          |
| FY = 420 N        | MY = 24 Nm          |
| FZ = 240 N        | MZ = 44 Nm          |



## LINEAR MODULES SCREW DRIVEN

### Recirculating ball slide/AGV-AG2V Series

The AGV series, with an extruded section varying from 50 to 200mm, is suitable when important positioning and repeatability accuracy is required. The standard screw is ISO7 rolled with a reduced-play thread and the car slides on recirculating ball guides by means of two/four sliders depending on the type of profile.

The choice between different pitches, precision and screw preload is provided.

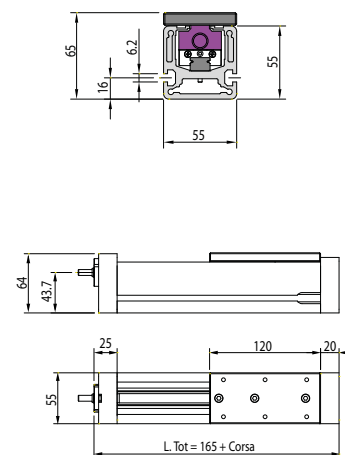
#### OPTIONS

- motor connection preparation
- additional holes
- fixing accessories
- possibility of anti-corrosion treatments

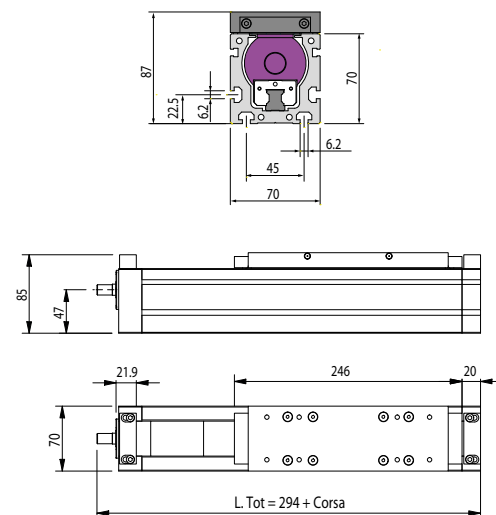
All linear modules are supplied assembled, without motors.

**N.B.** All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice.  
**Always contact the technical department to verify the application.**

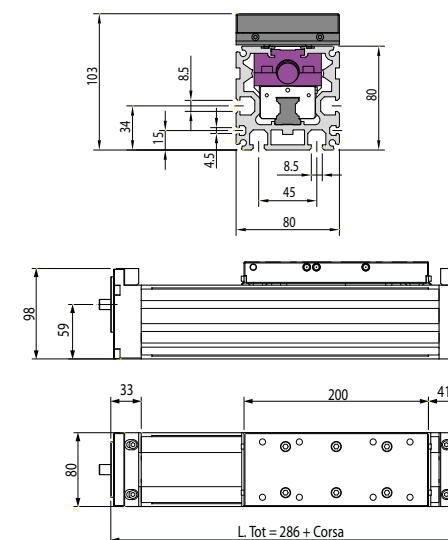
AGV55



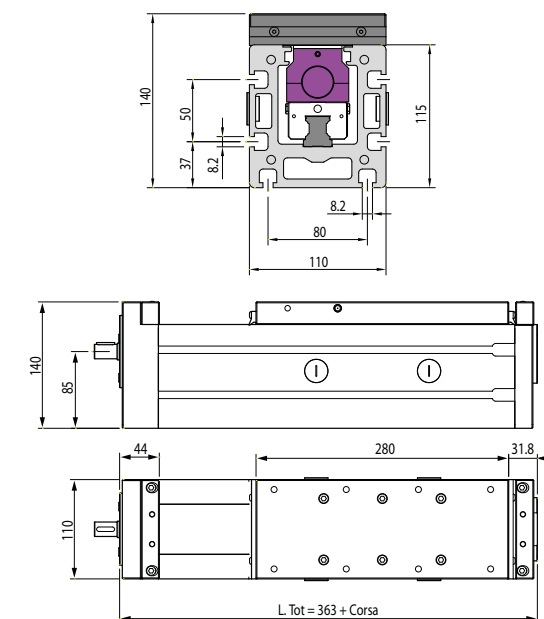
AGV70



AGV80



AGV110



## Technical features

|                           |               |
|---------------------------|---------------|
| No. of shoes              | 1             |
| Positioning repeatability | +/- 0.07 mm   |
| Shank diameter            | Ø 6 - 6.35 mm |
| Screw                     | D.10 P3       |
| Travel mass 0 mm          | 1.496 Kg      |
| Travel mass every 100 mm  | 0.47 Kg       |

## Technical features

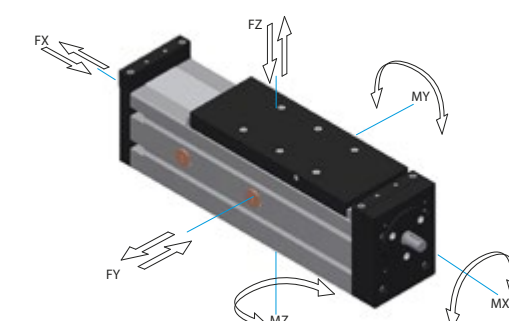
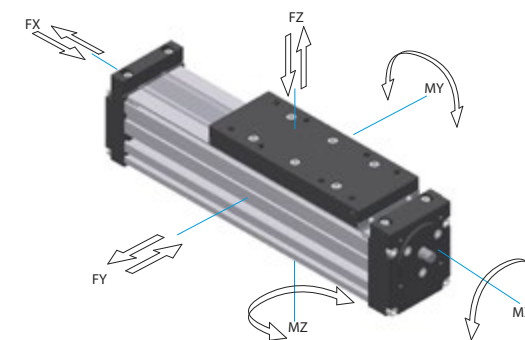
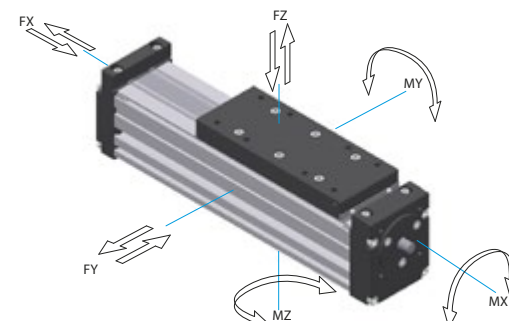
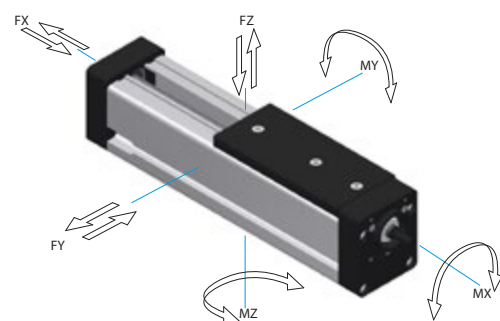
|                           |               |
|---------------------------|---------------|
| No. of shoes              | 2             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 11 mm       |
| Screw                     | D.16 P5 / P10 |
| Travel mass 0 mm          | 4.623 Kg      |
| Travel mass every 100 mm  | 0.71 Kg       |

## Technical features

|                           |               |
|---------------------------|---------------|
| No. of shoes              | 2             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 11 mm       |
| Screw                     | D.16 P5 / P10 |
| Travel mass 0 mm          | 5.011 Kg      |
| Travel mass every 100 mm  | 0.93 Kg       |

## Technical features

|                           |               |
|---------------------------|---------------|
| No. of shoes              | 2             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 16 mm       |
| Screw                     | D.25 P5 / P10 |
| Travel mass 0 mm          | 11.926 Kg     |
| Travel mass every 100 mm  | 2.01 Kg       |



## Maximum loads

|             |              |
|-------------|--------------|
| FX = 2300 N | MX = 73.5 Nm |
| FY = 6370 N | MY = 57.8 Nm |
| FZ = 6370 N | MZ = 57.8 Nm |

## MINIMUM EMPTY TORQUE

0.1 Nm

## Recommended loads

|             |              |
|-------------|--------------|
| FX = 460 N  | MX = 14.7 Nm |
| FY = 1274 N | MY = 11.5 Nm |
| FZ = 1274 N | MZ = 11.5 Nm |

## Maximum loads

|              |             |
|--------------|-------------|
| FX = 12300 N | MX = 123 Nm |
| FY = 12775 N | MY = 881 Nm |
| FZ = 12775 N | MZ = 881 Nm |

## MINIMUM EMPTY TORQUE

0.2 Nm

## Recommended loads

|             |               |
|-------------|---------------|
| FX = 2460 N | MX = 24.6 Nm  |
| FY = 2555 N | MY = 176.2 Nm |
| FZ = 2555 N | MZ = 176.2 Nm |

## Maximum loads

|              |              |
|--------------|--------------|
| FX = 12300 N | MX = 246 Nm  |
| FY = 18792 N | MY = 1371 Nm |
| FZ = 18792 N | MZ = 1371 Nm |

## MINIMUM EMPTY TORQUE

0.2 Nm

## Recommended loads

|             |               |
|-------------|---------------|
| FX = 2460 N | MX = 49.2 Nm  |
| FY = 3758 N | MY = 274.2 Nm |
| FZ = 3758 N | MZ = 274.2 Nm |

## Maximum loads

|              |              |
|--------------|--------------|
| FX = 15900 N | MX = 531 Nm  |
| FY = 37065 N | MY = 3650 Nm |
| FZ = 37065 N | MZ = 3650 Nm |

## MINIMUM EMPTY TORQUE

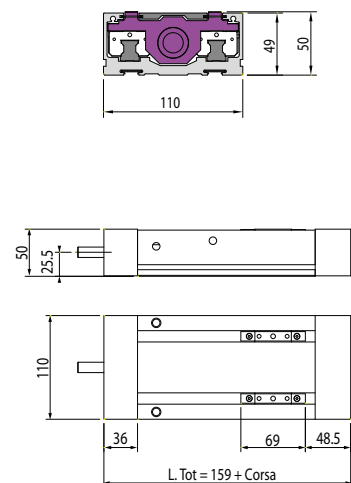
0.32 Nm

## Recommended loads

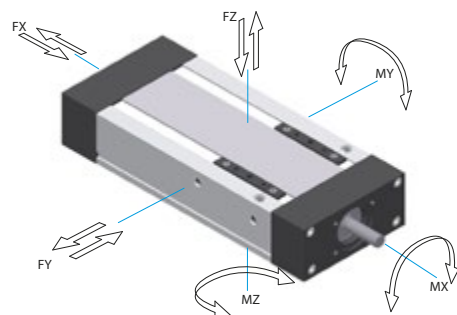
|             |               |
|-------------|---------------|
| FX = 3180 N | MX = 106.2 Nm |
| FY = 7413 N | MY = 730 Nm   |
| FZ = 7413 N | MZ = 730 Nm   |



### AG2V110

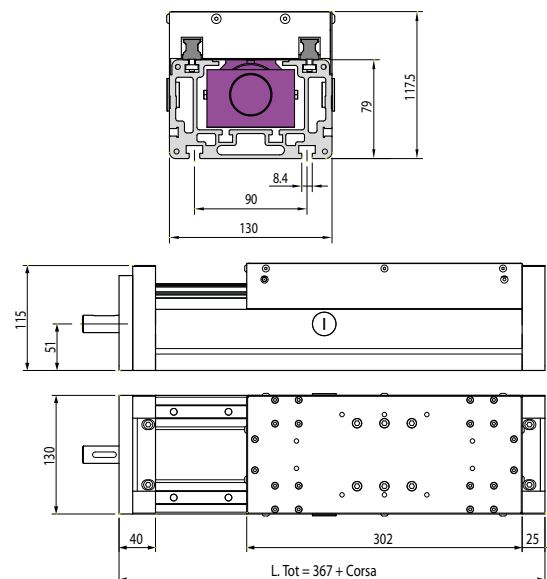


| Technical features        |               |
|---------------------------|---------------|
| No. of shoes              | 2             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 11 mm       |
| Screw                     | D.16 P5 / P10 |
| Travel mass 0 mm          | 2.687 Kg      |
| Travel mass every 100 mm  | 0.90 Kg       |

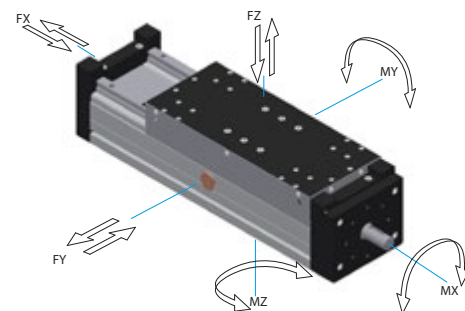


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 12300 N         | MX = 437 Nm         |
| FY = 12778 N         | MY = 88 Nm          |
| FZ = 12778 N         | MZ = 437 Nm         |
| MINIMUM EMPTY TORQUE | 0.2 Nm              |
| Recommended loads    | Recommended moments |
| FX = 2460 N          | MX = 87.4 Nm        |
| FY = 2555 N          | MY = 17.6 Nm        |
| FZ = 2555 N          | MZ = 87.4 Nm        |

### AG2V130

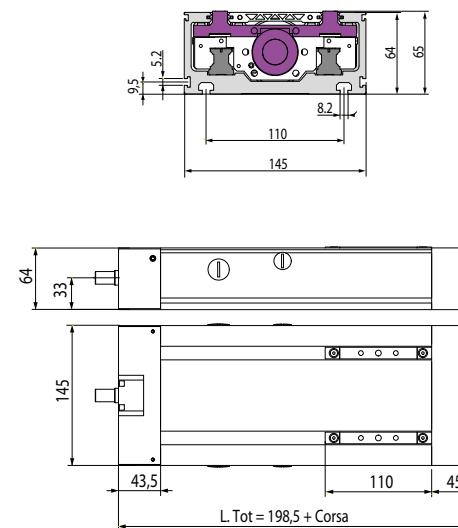


| Technical features        |               |
|---------------------------|---------------|
| No. of shoes              | 4             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 19 mm       |
| Screw                     | D.32 P5 / P10 |
| Travel mass 0 mm          | 10.468 Kg     |
| Travel mass every 100 mm  | 1.24 Kg       |

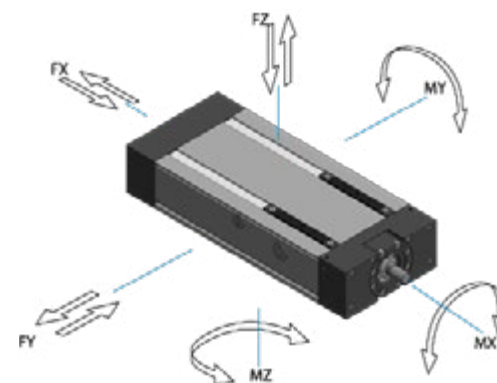


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 31700 N         | MX = 978 Nm         |
| FY = 20824 N         | MY = 2228 Nm        |
| FZ = 20824 N         | MZ = 2228 Nm        |
| MINIMUM EMPTY TORQUE | 0.4 Nm              |
| Recommended loads    | Recommended moments |
| FX = 6340 N          | MX = 193.4 Nm       |
| FY = 4164 N          | MY = 445.6 Nm       |
| FZ = 4164 N          | MZ = 445.6 Nm       |

### AG2V145

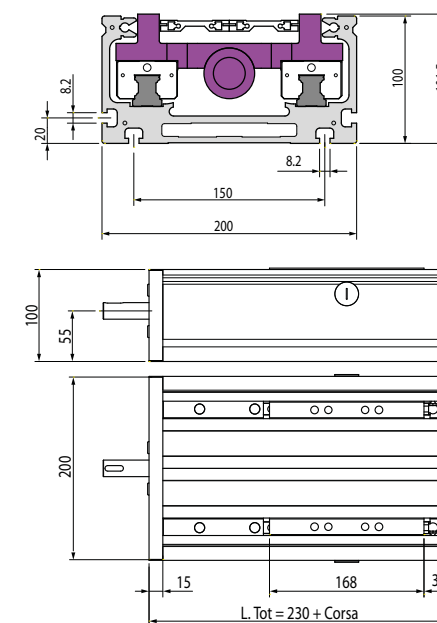


| Technical features        |               |
|---------------------------|---------------|
| No. of shoes              | 2             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 13 mm       |
| Screw                     | D.25 P5 / P10 |
| Travel mass 0 mm          | 5.112 Kg      |
| Travel mass every 100 mm  | 1.5 Kg        |

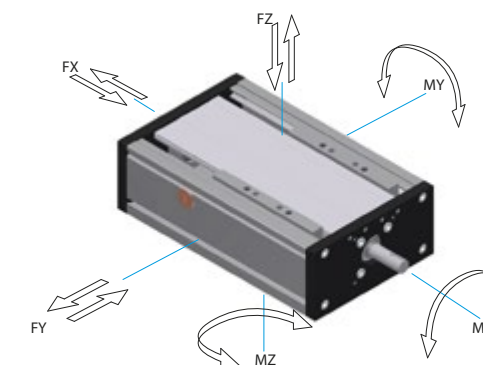


| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 15900 N         | MX = 1304 Nm        |
| FY = 30326 N         | MY = 259 Nm         |
| FZ = 30326 N         | MZ = 1304 Nm        |
| MINIMUM EMPTY TORQUE | 0.25 Nm             |
| Recommended loads    | Recommended moments |
| FX = 3180 N          | MX = 260 Nm         |
| FY = 6065 N          | MY = 51.8 Nm        |
| FZ = 6065 N          | MZ = 260 Nm         |

### AG2V200



| Technical features        |               |
|---------------------------|---------------|
| No. of shoes              | 4             |
| Positioning repeatability | +/- 0.05 mm   |
| Shank diameter            | Ø 18 mm       |
| Screw                     | D.25 P5 / P10 |
| Travel mass 0 mm          | 8.602 Kg      |
| Travel mass every 100 mm  | 2.16 Kg       |



| Maximum loads        | Maximum moments     |
|----------------------|---------------------|
| FX = 15900 N         | MX = 3896 Nm        |
| FY = 60403 N         | MY = 2896 Nm        |
| FZ = 60403 N         | MZ = 2896 Nm        |
| MINIMUM EMPTY TORQUE | 0.35 Nm             |
| Recommended loads    | Recommended moments |
| FX = 3180 N          | MX = 779 Nm         |
| FY = 12080 N         | MY = 579 Nm         |
| FZ = 12080 N         | MZ = 579 Nm         |





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