



M2



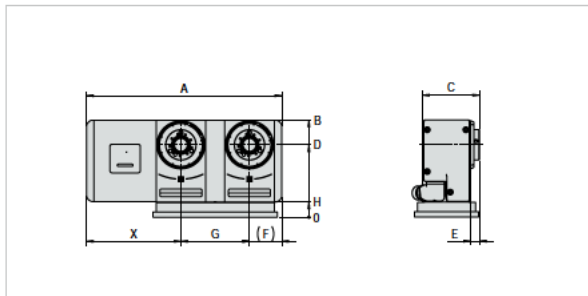
M3

|                           |  |                                      | M2-507           | M2-508 | M2-510 | M2-511 | M3-507 | M3-508 | M3-510 | M3-511 |      |
|---------------------------|--|--------------------------------------|------------------|--------|--------|--------|--------|--------|--------|--------|------|
| <b>Dimensions</b>         | Swivel ø                                 | mm                                   | 140              |        | 180    |        | 140    |        | 180    |        |      |
|                           | Spindle distance                         | mm                                   | 140              |        | 180    |        | 140    |        | 180    |        |      |
|                           | Center height                            | mm                                   | 150              |        | 190    |        | 150    |        | 190    |        |      |
|                           | Total weight                             | with motor<br>kg                     | 46               |        | 67     |        | 70     |        | 102    |        |      |
|                           | Center bore                              | mm                                   | 31               |        | 34     |        | 31     |        | 34     |        |      |
| <b>Bearing / Clamping</b> | Max. clamping torque                     | Nm                                   | 300              |        | 800    | 600    | 300    |        | 800    | 600    |      |
|                           | Max spindle load per spindle             | with tailstock                       | kg               | 2x120  | 2x60   | 2x200  | 2x100  | 3x80   | 3x40   | 3x133  | 3x67 |
|                           |  | without tailstock                    | kg               | 2x60   | 2x30   | 2x100  | 2x50   | 3x40   | 3x20   | 3x67   | 3x33 |
|                           |  | Standard load*                       | kg               | 2x12   | 2x7.5  | 2x27   | 2x14   | 3x9    | 3x6    | 3x21   | 3x11 |
|                           | Max. axial force                         | per spindle<br>kN                    | 44               |        | 46     |        | 44     |        | 46     |        |      |
| Max. pull-out torque      | per spindle<br>Nm                        | 1,200                                |                  | 2,000  |        | 1,200  |        | 2,000  |        |        |      |
| <b>Gear unit</b>          | Max. moment of inertia                   | Standard load*                       | kgm <sup>2</sup> | 0.05   | 0.025  | 0.2    | 0.07   | 0.05   | 0.025  | 0.21   | 0.07 |
|                           |  | J max                                | kgm <sup>2</sup> | 0.5    | 0.25   | 2      | 0.7    | 0.5    | 0.25   | 2      | 0.7  |
|                           | Max. feed torque                         | Nm                                   | 120              | 70     | 190    | 140    | 120    | 70     | 150    | 120    |      |
|                           | Indexing accuracy Pa **                  | ± arc sec                            | 20/12            |        | 17/10  |        | 20/12  |        | 17/10  |        |      |
|                           | Repeat accuracy Ps average               | ± arc sec                            | 2                |        |        |        |        |        |        |        |      |
| Max speed                 | with standard load*<br>min <sup>-1</sup> | 90                                   | 170              | 70     | 105    | 70     | 120    | 40     | 50     |        |      |
| <b>Precision</b>          | Radial run-out **                        | on spindle ø, outside & inside<br>µm |                  |        |        |        |        |        |        | 6 / 3  |      |
|                           | Axial concentricity **                   | at spindle end face<br>µm            |                  |        |        |        |        |        |        | 6 / 3  |      |
|                           | Parallelism **                           | Dividing axis to base<br>µm/100mm    |                  |        |        |        |        |        |        | 10 / 5 |      |

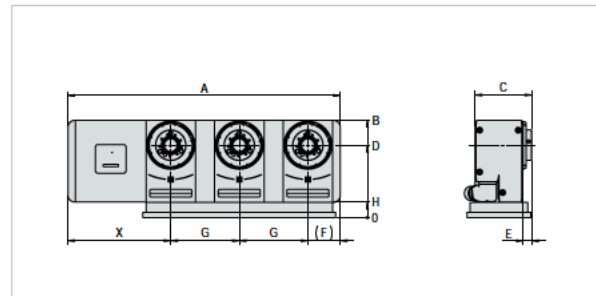
\* Maximum values possible mechanically, mutually dependent; for individual drive motor data, see right side

\*\* Standard / increased; for measuring method and validity of the values, for optional angular position measuring system

## Dimensions

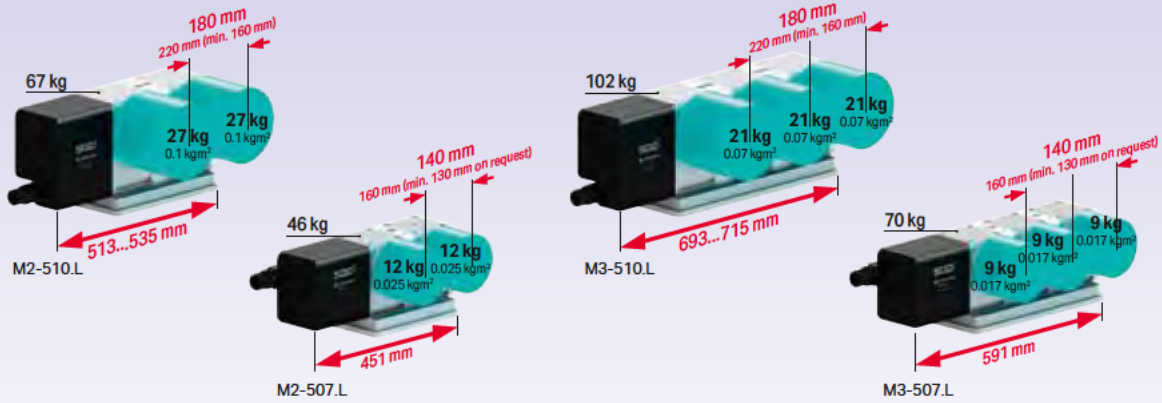


|        | A   | B   | C   | D   | E  | F  | G   | Gmn | H  | X   |
|--------|-----|-----|-----|-----|----|----|-----|-----|----|-----|
| M2-207 | 451 | 205 | 136 | 150 | 23 | 75 | 140 | 130 | 40 | 236 |
| M2-510 | 513 | 255 | 150 | 190 | 23 | 85 | 180 | 160 | 40 | 248 |



|        | A   | B   | C   | D   | E  | F  | G   | Gmn | H  | X   |
|--------|-----|-----|-----|-----|----|----|-----|-----|----|-----|
| M3-507 | 591 | 205 | 136 | 150 | 23 | 75 | 140 | 130 | 40 | 236 |
| M3-510 | 693 | 255 | 150 | 190 | 23 | 85 | 180 | 160 | 40 | 248 |

Dimensions with 508 or 511 identical to 507 and 510.



## Drive data

(based on standard load cube shown on pp. 86/87)

|                      |            | Motors     |            |                            |                     |      |
|----------------------|------------|------------|------------|----------------------------|---------------------|------|
|                      |            |            | Feed* [Nm] | Speed [min <sup>-1</sup> ] | Cycle time*** [sec] |      |
| MAVILOR / MOVINOR ** | M2-507     | BLS-072    | 120        | 90                         | 0.32                | 0.48 |
|                      | M2-508     | BLS-072    | 70         | 170                        | 0.27                | 0.35 |
|                      | M2-510     | BLS-072    | 190        | 70                         | 0.32                | 0.54 |
|                      | M2-511     | BLS-072    | 140        | 105                        | 0.25                | 0.40 |
|                      | M3-507     | BLS-072    | 120        | 70                         | 0.34                | 0.55 |
|                      | M3-508     | BLS-072    | 70         | 120                        | 0.27                | 0.39 |
|                      | M3-510     | BLS-072    | 150        | 40                         | 0.48                | 0.85 |
| FANUC                | M2-507     | β1 is      | 65         | 60                         | 0.37                | 0.62 |
|                      | M2-508     | β1 is      | 40         | 90                         | 0.34                | 0.50 |
|                      | M2-510     | α2 (HV)is  | 95         | 45                         | 0.45                | 0.78 |
|                      | M2-511     | α2 (HV)is  | 80         | 70                         | 0.33                | 0.55 |
|                      | M3-507     | β1 is      | 30         | 30                         | 0.57                | 1.07 |
|                      | M3-508     | β1 is      | 30         | 40                         | 0.48                | 0.86 |
|                      | M3-510     | α2 (HV)is  | 65         | 30                         | 0.66                | 1.16 |
| YASKAWA SGM7J        | M2-507     | SGM7J 06   | 120        | 65                         | 0.35                | 0.58 |
|                      | M2-508     | SGM7J 06   | 70         | 120                        | 0.23                | 0.36 |
|                      | M2-510     | SGM7J 08   | 145        | 50                         | 0.40                | 0.70 |
|                      | M2-511     | SGM7J 08   | 110        | 90                         | 0.28                | 0.45 |
|                      | M3-507     | SGM7J 06   | 120        | 50                         | 0.39                | 0.69 |
|                      | M3-508     | SGM7J 06   | 70         | 95                         | 0.28                | 0.43 |
|                      | M3-510     | SGM7J 08   | 105        | 35                         | 0.54                | 0.97 |
| YASKAWA SGMJV        | M2-507     | SGMJV 04   | 85         | 50                         | 0.41                | 0.71 |
|                      | M2-508     | SGMJV 04   | 65         | 85                         | 0.31                | 0.49 |
|                      | M2-510     | SGMJV 08   | 145        | 50                         | 0.40                | 0.70 |
|                      | M2-511     | SGMJV 08   | 110        | 90                         | 0.28                | 0.45 |
|                      | M3-508     | SGMJV 04   | 50         | 55                         | 0.39                | 0.66 |
|                      | M3-510     | SGMJV 08   | 105        | 35                         | 0.54                | 0.97 |
|                      | M3-511     | SGMJV 08   | 85         | 60                         | 0.38                | 0.63 |
| MITSUBISHI 200 V     | M2-507     | HG56       | 100        | 40                         | 0.43                | 0.81 |
|                      | M2-508     | HG56       | 70         | 80                         | 0.29                | 0.48 |
|                      | M2-510     | HG75       | 135        | 45                         | 0.40                | 0.73 |
|                      | M2-511     | HG75       | 100        | 80                         | 0.30                | 0.49 |
|                      | M3-507     | HG56       | 75         | 35                         | 0.48                | 0.91 |
|                      | M3-508     | HG56       | 65         | 65                         | 0.37                | 0.60 |
|                      | M3-510     | HG75       | 95         | 25                         | 0.64                | 1.24 |
| MITSUBISHI 400V      | M2-510     | HG-H75     | 135        | 45                         | 0.40                | 0.73 |
|                      | M2-511     | HG-H75     | 100        | 80                         | 0.30                | 0.49 |
|                      | M3-510     | HG-H75     | 95         | 25                         | 0.64                | 1.24 |
|                      | M3-511     | HG-H75     | 80         | 35                         | 0.48                | 0.91 |
| SANYO                | M2-507     | R2Ax 06040 | 95         | 55                         | 0.37                | 0.64 |
|                      | M2-508     | R2Ax 06040 | 70         | 100                        | 0.30                | 0.45 |
|                      | M2-510     | R2Ax 08075 | 145        | 50                         | 0.39                | 0.69 |
|                      | M2-511     | R2Ax 08075 | 135        | 90                         | 0.28                | 0.45 |
|                      | M3-507     | R2Ax 06040 | 70         | 40                         | 0.48                | 0.85 |
|                      | M3-508     | R2Ax 06040 | 60         | 65                         | 0.35                | 0.58 |
|                      | M3-510     | R2Ax 08075 | 110        | 35                         | 0.54                | 0.97 |
| M3-511               | R2Ax 08075 | 120        | 60         | 0.35                       | 0.60                |      |

\*at 1 rpm;

\*\*\* without clamping; for times

\*\* for Siemens / Heidenhain

## Important information

- The limit values as set out in the corresponding parameter list take precedence over the data and information provided in the main catalog (due to motor, drive enhancement and the respective machine CNC)
- Motor-dependent data are optimum values at operating temperature
- Further details are available at [www.lehmann-rotary-tables.com](http://www.lehmann-rotary-tables.com), under Download / Commissioning



Labyrinth seal (cutaway view)

- Recommended for:
- + grinding operations
  - + high coolant pressures
  - + extremely fine abrasive particles

## Accessories

Motor, cable, angular position measuring system and pL CNC

## Options

| Item no.                     | Description  |
|------------------------------|--|
| GEO.5xx-GEN                  | Incr. geometric precision, 1/2 standard tolerance                    |
| SPI.5xx-Lab-x2 <sup>1)</sup> | Spindle seal with labyrinth, integrated sealing air pressure control |
| SPI.5xx-Lab-x3 <sup>1)</sup> | Spindle seal with labyrinth, integrated sealing air pressure control |

1) for 507/510: HSK and ripas clamping not possible manually, GET.5xx-GEN and GEO.5xx-GEN only partly possible (increased radial and axial run-out cannot always be reached)

## Item no.

