

# Planetary Gearheads

## 0,35 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors  
Stepper Motors

### Series 15/10

|                                      | 15/10                   | 15/10K                   |
|--------------------------------------|-------------------------|--------------------------|
| Housing material                     | stainless steel         | stainless steel          |
| Geartrain material                   | steel                   | steel                    |
| Recommended max. input speed for:    |                         |                          |
| – continuous operation               | 6 000 min <sup>-1</sup> | 6 000 min <sup>-1</sup>  |
| Backlash, at no-load                 | ≤ 1,5 °                 | ≤ 1,5 °                  |
| Bearings on output shaft             | sintered bearings       | ball bearings, preloaded |
| Shaft load, max.:                    |                         |                          |
| – radial (6,5 mm from mounting face) | ≤ 4 N                   | ≤ 30 N                   |
| – axial                              | ≤ 3 N                   | ≤ 5 N                    |
| Shaft press fit force, max.          | ≤ 100 N                 | ≤ 25 N                   |
| Shaft play                           |                         |                          |
| – radial (6,5 mm from mounting face) | ≤ 0,05 mm               | ≤ 0,03 mm                |
| – axial                              | ≤ 0,1 mm                | = 0 mm                   |
| Operating temperature range          | - 30 ... + 100 °C       | - 30 ... + 100 °C        |

| Technical data                             |     |                 |                      |  |   |   |
|--|-----|-----------------|----------------------|--|---|---|
| Number of gear stages                      |     | 1               | 2                    | 3  | 4   | 5   |
| Continuous torque                          | mNm | 350             | 350                  | 350  | 350   | 350   |
| Intermittent torque                        | mNm | 500             | 500                  | 500  | 500   | 500   |
| Mass without motor, ca.                    | g   | 19              | 23                   | 27   | 31  | 35  |
| Efficiency, max.                           | %   | 90              | 80                   | 70   | 60  | 50  |
| Direction of rotation, drive to output     |     | =               | =                    | =  | =   | =   |
| Reduction ratio <sup>1)</sup><br>(rounded) |     | 3,33:1<br>4,5:1 | 11:1<br>15:1<br>20:1 | 37:1<br>44:1<br>50:1<br>68:1<br>81:1<br>91:1 | 123:1<br>148:1<br>167:1<br>178:1<br>200:1<br>240:1<br>270:1<br>304:1<br>365:1 | 412:1<br>494:1<br>593:1<br>667:1<br>750:1<br>800:1<br>900:1<br>1 013:1<br>1 367:1 |
| L2 [mm] = length without motor             |     | 17,1            | 21,3                 | 25,4   | 29,5  | 33,6  |
| L1 [mm] = length with motor                |     |                 |                      |  |   |   |
| 1516T...SR                                 |     | 32,9            | 37,1                 | 41,2   | 45,3  | 49,4  |
| 1524T...SR                                 |     | 40,9            | 45,1                 | 49,2   | 53,3  | 57,4  |
| 1624T...S                                  |     | 40,9            | 45,1                 | 49,2   | 53,3  | 57,4  |
| 1717T...SR                                 |     | 34,1            | 38,3                 | 42,4   | 46,5  | 50,6  |
| 1724T...SR                                 |     | 41,1            | 45,3                 | 49,4   | 53,5  | 57,6  |
| 1727U...CXR                                |     | 44,3            | 48,5                 | 52,6   | 56,7  | 60,8  |
| 1741U...CXR                                |     | 58,3            | 62,5                 | 66,6   | 70,7  | 74,8  |
| 1628T...B                                  |     | 45,1            | 49,3                 | 53,4   | 57,5  | 61,6  |
| 1645U...BHS                                |     | 62,5            | 66,7                 | 70,8   | 74,9  | 79,0  |
| 1660U...BHS/BHT                            |     | 77,5            | 81,7                 | 85,8   | 89,9  | 94,0  |
| AM1524...55                                |     | 33,5            | 37,7                 | 41,8   | 45,9  | 50,0  |

<sup>1)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

