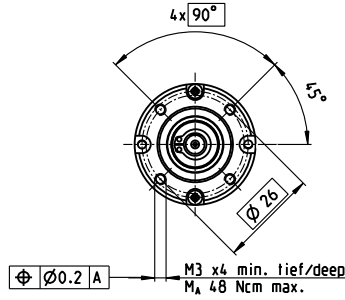
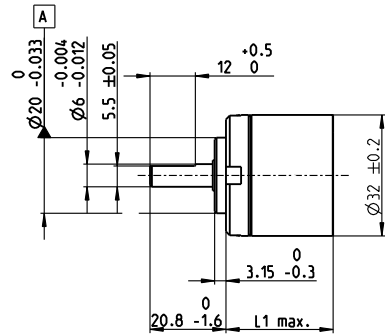


# Planetary Gearhead GP 32 BZ Ø32 mm, 0.75–4.5 Nm

Low Backlas

gear



M 1:2

## Technical data

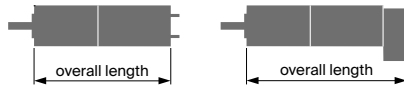
|                                        |                           |
|----------------------------------------|---------------------------|
| Planetary Gearhead                     | straight teeth            |
| Output shaft                           | stainless steel, hardened |
| Bearing at output                      | ball bearing              |
| Radial play, 5 mm from flange          | max. 0.1 mm               |
| Axial play                             | max. 0.7 mm               |
| Max. axial load (dynamic)              | 120 N                     |
| Max. force for press fits              | 120 N                     |
| Direction of rotation, drive to output | =                         |
| Max. continuous input speed            | 4000 rpm                  |
| Recommended temperature range          | -40...+100°C              |
| Number of stages                       | 1 2 3                     |
| Max. radial load, 12 mm from flange    | 70 N 110 N 130 N          |

- Stock program
- Standard program
- Special program (on request)

## Part numbers

| Gearhead data                                | 358975                | 351942          | 358331            | 357988             | 358335            | 358385                | 358512                | 358513                | 358515              | 358516              |
|----------------------------------------------|-----------------------|-----------------|-------------------|--------------------|-------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|
| 1 Reduction                                  | 3.7:1                 | 5.2:1           | 19:1              | 27:1               | 35:1              | 71:1                  | 100:1                 | 139:1                 | 181:1               | 236:1               |
| 2 Absolute reduction                         | $\frac{63}{17}$       | $\frac{57}{11}$ | $\frac{359}{187}$ | $\frac{3249}{121}$ | $\frac{1539}{44}$ | $\frac{226233}{3179}$ | $\frac{204687}{2057}$ | $\frac{185193}{1331}$ | $\frac{87723}{484}$ | $\frac{41553}{176}$ |
| 3 Max. motor shaft diameter                  | mm 5.5                | 3               | 3                 | 3                  | 3                 | 3                     | 3                     | 3                     | 3                   | 3                   |
| 4 Number of stages                           | 1                     | 1               | 2                 | 2                  | 2                 | 3                     | 3                     | 3                     | 3                   | 3                   |
| 5 Max. continuous torque                     | Nm 0.75               | 0.75            | 2.25              | 2.25               | 2.25              | 4.5                   | 4.5                   | 4.5                   | 4.5                 | 4.5                 |
| Max. continuous torque within the preloading | Nm 0.5                | 0.5             | 1.1               | 1.1                | 1.1               | 1.7                   | 1.7                   | 1.7                   | 1.7                 | 1.7                 |
| 6 Max. intermittent torque at gear output    | Nm 1.1                | 1.1             | 3.2               | 3.2                | 3.2               | 6.2                   | 6.2                   | 6.2                   | 6.2                 | 6.2                 |
| 7 Max. efficiency                            | % 85                  | 85              | 80                | 80                 | 80                | 70                    | 70                    | 70                    | 70                  | 70                  |
| 8 Weight                                     | g 150                 | 150             | 190               | 190                | 190               | 240                   | 240                   | 240                   | 240                 | 240                 |
| 9 Average backlash no load                   | ° 0.15                | 0.15            | 0.35              | 0.35               | 0.35              | 0.5                   | 0.5                   | 0.5                   | 0.5                 | 0.5                 |
| 10 Mass inertia                              | gcm <sup>2</sup> 1.25 | 1.25            | 0.75              | 0.75               | 0.75              | 0.7                   | 0.7                   | 0.7                   | 0.7                 | 0.7                 |
| 11 Gearhead length L1*                       | mm 33.5               | 33.5            | 43.6              | 43.6               | 43.6              | 53.1                  | 53.1                  | 53.1                  | 53.1                | 53.1                |

\*for EC 32 L1 is + 6.4 mm, for RE 30 L1 is + 1.0 mm



| Modular system |         |                 |         |                                                                                        |       |       |       |       |       |       |       |
|----------------|---------|-----------------|---------|----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| + Motor        | Page    | + Sensor/Brake  | Page    | Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts |       |       |       |       |       |       |       |
| RE 25          | 156/158 |                 |         | 88.1                                                                                   | 88.1  | 98.2  | 98.2  | 98.2  | 107.7 | 107.7 | 107.7 |
| RE 25          | 156/158 | ENX 25 IMR      | 505     | 99.1                                                                                   | 99.1  | 109.2 | 109.2 | 109.2 | 118.7 | 118.7 | 118.7 |
| RE 25          | 156/158 | HED_5540        | 535/537 | 108.9                                                                                  | 108.9 | 119.0 | 119.0 | 119.0 | 128.5 | 128.5 | 128.5 |
| RE 25          | 156/158 | DCT 22          | 542     | 110.4                                                                                  | 110.4 | 120.5 | 120.5 | 120.5 | 130.0 | 130.0 | 130.0 |
| RE 25, 20 W    | 157     |                 |         | 76.6                                                                                   | 76.6  | 86.7  | 86.7  | 86.7  | 96.2  | 96.2  | 96.2  |
| RE 25, 20 W    | 157     | ENX 25 IMR      | 505     | 87.6                                                                                   | 87.6  | 97.7  | 97.7  | 97.7  | 107.2 | 107.2 | 107.2 |
| RE 25, 20 W    | 157     | HED_5540        | 536/537 | 97.4                                                                                   | 97.4  | 107.5 | 107.5 | 107.5 | 117.0 | 117.0 | 117.0 |
| RE 25, 20 W    | 157     | DCT 22          | 542     | 98.9                                                                                   | 98.9  | 109.0 | 109.0 | 109.0 | 118.5 | 118.5 | 118.5 |
| RE 25, 20 W    | 157     | AB 28           | 587     | 110.7                                                                                  | 110.7 | 120.8 | 120.8 | 120.8 | 130.3 | 130.3 | 130.3 |
| RE 25, 20 W    | 157     | HED_5540/AB 28  | 536/587 | 127.9                                                                                  | 127.9 | 138.0 | 138.0 | 138.0 | 147.5 | 147.5 | 147.5 |
| RE 25, 20 W    | 158     | AB 28           | 587     | 122.2                                                                                  | 122.2 | 132.3 | 132.3 | 132.3 | 141.8 | 141.8 | 141.8 |
| RE 25, 20 W    | 158     | HED_5540/AB 28  | 536/587 | 139.4                                                                                  | 139.4 | 149.5 | 149.5 | 149.5 | 159.0 | 159.0 | 159.0 |
| RE 30, 60 W    | 160     |                 |         | 102.6                                                                                  | 102.6 | 112.7 | 112.7 | 112.7 | 122.2 | 122.2 | 122.2 |
| RE 30, 60 W    | 160     | ENX 32 IMR      | 506     | 114.0                                                                                  | 114.0 | 124.1 | 124.1 | 124.1 | 133.6 | 133.6 | 133.6 |
| RE 30, 60 W    | 160     | HED_5540        | 535/537 | 123.4                                                                                  | 123.4 | 133.5 | 133.5 | 133.5 | 143.0 | 143.0 | 143.0 |
| RE 35, 90 W    | 161     |                 |         | 104.6                                                                                  | 104.6 | 114.7 | 114.7 | 114.7 | 124.2 | 124.2 | 124.2 |
| RE 35, 90 W    | 161     | ENX 32 IMR      | 506     | 116.0                                                                                  | 116.0 | 126.1 | 126.1 | 126.1 | 135.6 | 135.6 | 135.6 |
| RE 35, 90 W    | 161     | HED_5540        | 535/537 | 125.3                                                                                  | 125.3 | 135.4 | 135.4 | 135.4 | 144.9 | 144.9 | 144.9 |
| RE 35, 90 W    | 161     | DCT 22          | 542     | 122.7                                                                                  | 122.7 | 132.8 | 132.8 | 132.8 | 142.3 | 142.3 | 142.3 |
| RE 35, 90 W    | 161     | AB 28           | 587     | 140.7                                                                                  | 140.7 | 150.8 | 150.8 | 150.8 | 160.3 | 160.3 | 160.3 |
| RE 35, 90 W    | 161     | HEDS 5540/AB 28 | 536/587 | 157.9                                                                                  | 157.9 | 168.0 | 168.0 | 168.0 | 177.5 | 177.5 | 177.5 |
| A-max 26       | 183/186 |                 |         | 78.3                                                                                   | 78.3  | 88.4  | 88.4  | 88.4  | 97.9  | 97.9  | 97.9  |
| A-max 26       | 184/186 | ENX 13 GAMA     | 498     | 85.4                                                                                   | 85.4  | 95.5  | 95.5  | 95.5  | 105.0 | 105.0 | 105.0 |
| A-max 26       | 184/186 | ENX 25 IMR      | 505     | 87.1                                                                                   | 87.1  | 97.2  | 97.2  | 97.2  | 106.7 | 106.7 | 106.7 |
| A-max 26       | 184/186 | HED_5540        | 535/537 | 96.7                                                                                   | 96.7  | 106.8 | 106.8 | 106.8 | 116.3 | 116.3 | 116.3 |
| A-max 32       | 187     |                 |         | 96.5                                                                                   | 96.5  | 106.6 | 106.6 | 106.6 | 116.1 | 116.1 | 116.1 |
| A-max 32       | 188     |                 |         | 95.1                                                                                   | 95.1  | 105.2 | 105.2 | 105.2 | 114.7 | 114.7 | 114.7 |
| A-max 32       | 188     | ENX 32 IMR      | 506     | 106.3                                                                                  | 106.3 | 116.4 | 116.4 | 116.4 | 125.9 | 125.9 | 125.9 |
| A-max 32       | 188     | HED_5540        | 535/537 | 115.9                                                                                  | 115.9 | 126.0 | 126.0 | 126.0 | 135.5 | 135.5 | 135.5 |
| EC 32, 80 W    | 271     |                 |         | 100.2                                                                                  | 100.2 | 110.3 | 110.3 | 110.3 | 119.8 | 119.8 | 119.8 |
| EC 32, 80 W    | 271     | HED_5540        | 535/537 | 118.6                                                                                  | 118.6 | 128.7 | 128.7 | 128.7 | 138.2 | 138.2 | 138.2 |
| EC 32, 80 W    | 271     | Res 26          | 543     | 120.3                                                                                  | 120.3 | 130.4 | 130.4 | 130.4 | 139.9 | 139.9 | 139.9 |