



## Main

|                           |   |
|---------------------------|---|
| Range Compatibility       | Lexium SD3<br>Lexium 28<br>Lexium 62 ILM<br>Lexium 62<br>Lexium ILS<br>Lexium 32<br>Lexium 52   |
| Product or Component Type | Planetary gearbox   |
| Gear box type             | Straight teeth  |
| Device short name         | GBX   |
| Product compatibility     | BMH 2.76 in (70 mm), 1<br>BMH 2.76 in (70 mm), 2<br>BSH 2.76 in (70 mm), 1<br>BSH 2.76 in (70 mm), 2<br>BRS3<br>ILS 3.35 in (85 mm), 1<br>ILS 3.35 in (85 mm), 2<br>ILS 3.35 in (85 mm), 3<br>BCH2 3.15 in (80 mm), 1<br>BCH2 3.15 in (80 mm), 2<br>SH3<br>MH3<br>ILM |
| Gearbox external diameter | 3.15 in (80 mm)   |
| Reduction ratio           | 25:1  |

## Complementary

|                            |   |
|----------------------------|---|
| Maximum torsional backlash | 9 arc.min   |
| Torsional rigidity         | 6.5 N.m/arcmin  |
| Housing Colour             | Black   |
| Housing material           | Black anodized aluminium  |
| Shaft material             | C 45  |
| Additional information     | Lubricated for life   |
| Service life in hours      | 30000 h 100 rpm 86 °F (30 °C)   |
| Mounting position          | Any position  |
| Efficiency                 | 94 %  |
| Maximum radial force Fr    | 650 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C |
| Maximum axial force Fa     | 1200 N 100 rpm, during 30000 hour at 30°C   |
| Moment of inertia          | 0.44 kg.cm <sup>2</sup>   |
| Continuous output torque   | 973.58 lbf.in (110 N.m) 100 rpm 86 °F (30 °C)   |
| Maximum output torque      | 1557.73 lbf.in (176 N.m) 100 rpm 86 °F (30 °C)  |
| Net Weight                 | 5.73 lb(US) (2.6 kg)  |
| Input diameter             | 0.75 in (19.0 mm)   |

## Environment

|                                   |                            |
|-----------------------------------|----------------------------|
| Noise level                       | 60 dB 1 m, no-load         |
| IP Degree of Protection           | Shaft output IP54          |
| Ambient temperature for operation | -13...194 °F (-25...90 °C) |

## Ordering and shipping details

|                   |                         |
|-------------------|-------------------------|
| Category          | 18283-NEUGART GEARBOXES |
| Discount Schedule | PC53                    |
| GTIN              | 3606480388408           |
| Returnability     | No                      |
| Country of origin | DE                      |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 4.33 in (11.0 cm)        |
| Package 1 Width              | 4.21 in (10.7 cm)        |
| Package 1 Length             | 7.09 in (18.0 cm)        |
| Package 1 Weight             | 5.31 lb(US) (2.41 kg)    |
| Unit Type of Package 2       | S03                      |
| Number of Units in Package 2 | 4                        |
| Package 2 Height             | 11.81 in (30.0 cm)       |
| Package 2 Width              | 11.81 in (30.0 cm)       |
| Package 2 Length             | 15.75 in (40.0 cm)       |
| Package 2 Weight             | 22.52 lb(US) (10.217 kg) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | No need of specific recycling operations  |
| PVC free                   | Yes   |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions with Servo Motor Adaptation Kit



(1) GBK adaptation kit

(2) GBK adaptation kit related dimensions a1, c, Ø6, Ø7, Ø8 depend on the gearbox and servo motor combination  
Ø8 shaft end adaptor in case motor shaft diameter is smaller than gearbox input coupling diameter

Values in mm

| a2   | a3 | a4 | a5 | h    | g | Ø1 | Ø2    | Ø3    | Ø4      | Ø5 |
|------|----|----|----|------|---|----|-------|-------|---------|----|
| 89.5 | 40 | 36 | 4  | 22.5 | 6 | 80 | 60 h7 | 20 h7 | M6 x 10 | 70 |

Values in in.

| a2   | a3   | a4   | a5   | h    | g    | Ø1   | Ø2      | Ø3      | Ø4        | Ø5   |
|------|------|------|------|------|------|------|---------|---------|-----------|------|
| 3.52 | 1.57 | 1.42 | 0.16 | 0.89 | 0.24 | 3.15 | 2.36 h7 | 0.79 h7 | M6 x 0.39 | 2.76 |