



Main

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|---------------------------|--|
| Range compatibility | Lexium 32 Lexium SD3 Lexium 32i Lexium 28 Lexium 52 Lexium 62 ILM Lexium 62 |
| Product or component type | Planetary gearbox |
| Gear box type | Straight teeth |
| Device short name | GBX |
| Product compatibility | BMI (100 mm, 2 motor stacks) BMI (100 mm, 3 motor stacks) BMH (100 mm, 2 motor stacks) BMH (100 mm, 3 motor stacks) BSH (100 mm, 2 motor stacks) BSH (100 mm, 3 motor stacks) BRS3 BCH2 (100 mm, 1 motor stacks) BCH2 (100 mm, 2 motor stacks) BCH2 (130 mm, 1 motor stacks) SH3 MH3 ILM |
| Gearbox external diameter | 120 mm |
| Reduction ratio | 20:1 |

Complementary

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|----------------------------|--------------------------|
| Maximum torsional backlash | 9 arc.min |
| Torsional rigidity | 13 N.m/arcmin |
| Housing colour | Black |
| Housing material | Black anodized aluminium |
| Shaft material | C 45 |
| Additional information | Lubricated for life |

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|--------------------------|---|
| Service life in hours | 30000 h at 100 rpm at 30 °C |
| Mounting position | Any position |
| Efficiency | 94 % |
| Maximum radial force Fr | 1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C |
| Maximum axial force Fa | 2100 N at 100 rpm, during 30000 hour at 30°C |
| Moment of inertia | 1.5 kg.cm ² |
| Continuous output torque | 260 N.m at 100 rpm at 30 °C |
| Maximum output torque | 416 N.m at 100 rpm at 30 °C |
| Net weight | 8 kg |

Environment

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|-----------------------------------|-----------------------|
| Noise level | 65 dB at 1 m, no-load |
| IP degree of protection | Shaft output: IP54 |
| Ambient temperature for operation | -25...90 °C |

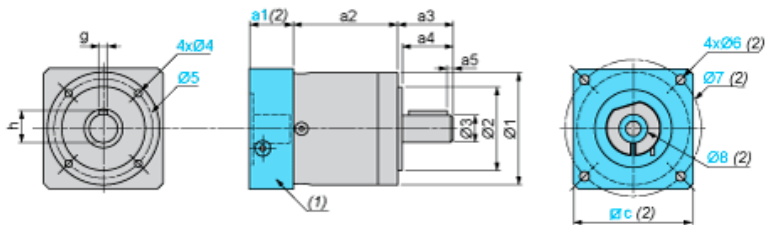
Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |

Contractual warranty

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| Warranty | 18 months |
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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 |
|-------|----|----|----|----|---|-----|-------|-------|----------|-----|
| 126.5 | 55 | 50 | 5 | 28 | 8 | 115 | 80 h7 | 25 h7 | M10 x 16 | 100 |

Values in in.

| a2 | a3 | a4 | a5 | h | g | Ø1 | Ø2 | Ø3 | Ø4 | Ø5 |
|------|------|------|------|------|------|------|---------|---------|------------|------|
| 4.98 | 2.17 | 1.97 | 0.19 | 1.10 | 0.31 | 4.53 | 3.15 h7 | 0.98 h7 | M10 x 0.63 | 3.94 |