



Main

Range compatibility	Lexium 62 ILM Lexium 52 Lexium 32 Lexium 28
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BMH (70 mm, 3 motor stacks) BSH (70 mm, 3 motor stacks) BCH2 (80 mm, 1 motor stacks) SH3 MH3 ILM
Gearbox external diameter	80 mm
Reduction ratio	10:1

Complementary

Maximum torsional backlash	7 arc.min
Torsional rigidity	6 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 at 100 rpm at 30 °C
Mounting position	Any position
Efficiency	96 %
Maximum radial force Fr	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	900 N at 100 rpm, during 30000 hour at 30 °C
Moment of inertia	0.39 kg.cm²
Continuous output torque	38 N.m at 100 rpm at 30 °C

Maximum output torque	61 N.m at 100 rpm at 30 °C
Product weight	2.1 kg

Environment

Noise level	60 dB at 1 m, no-load
IP degree of protection	Shaft output: IP54
Ambient temperature for operation	-25...90 °C

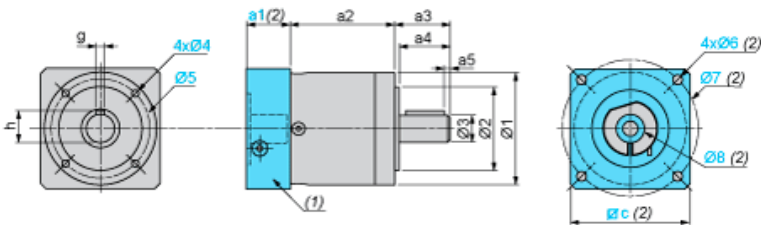
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
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

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
72	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
2.83	1.57	1.42	0.16	0.89	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76