



## Main

Range compatibility	Lexium 62 Lexium 28 Lexium 62 ILM Lexium 52 Lexium 32
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BMH (70 mm, 1 motor stacks) BSH (55 mm, 1 motor stacks) BSH (55 mm, 3 motor stacks) BSH (70 mm, 1 motor stacks) BCH2 (60 mm, 1 motor stacks) SH3 MH3 ILM
Gearbox external diameter	60 mm
Reduction ratio	10:1

## Complementary

Maximum torsional backlash	10 arc.min
Torsional rigidity	2.3 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	340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	450 N at 100 rpm, during 30000 hour at 30°C
Moment of inertia	0.064 kg.cm <sup>2</sup>
Continuous output torque	15 N.m at 100 rpm at 30 °C
Maximum output torque	24 N.m at 100 rpm at 30 °C
Net weight	0.9 kg
Input diameter	14.0 mm

## Environment

Noise level	58 dB at 1 m, no-load
IP degree of protection	Shaft output: IP54
Ambient temperature for operation	-25...90 °C

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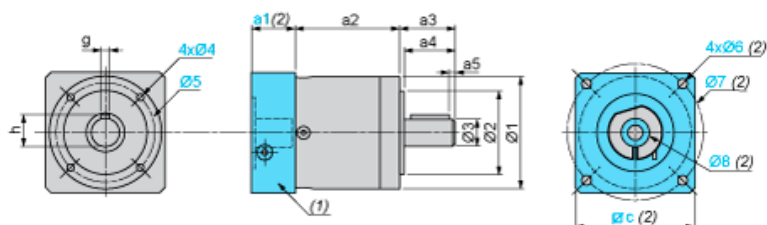
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.5 cm
Package 1 Width	7.0 cm
Package 1 Length	7.0 cm
Package 1 Weight	832.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.615 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
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

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
55	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.16	1.38	1.18	0.10	063	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05