



## Main

Range Compatibility	Lexium ILA Lexium 28 Lexium 62 ILM Lexium 62 Lexium 32 Lexium ILS Lexium 52 Lexium SD3
Product or Component Type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BMH 2.76 in (70 mm), 1 BMH 2.76 in (70 mm), 2 BMH 2.76 in (70 mm), 3 BSH 2.17 in (55 mm), 1 BSH 2.17 in (55 mm), 2 BSH 2.17 in (55 mm), 3 BSH 2.76 in (70 mm), 1 BSH 2.76 in (70 mm), 2 BSH 2.76 in (70 mm), 3 BRS3 ILA 2.24 in (57 mm), 1 ILA 2.24 in (57 mm), 2 ILS 2.24 in (57 mm), 1 ILS 2.24 in (57 mm), 2 ILS 2.24 in (57 mm), 3 BCH2 2.36 in (60 mm), 1 BCH2 2.36 in (60 mm), 2 SH3 MH3 ILM
Gearbox external diameter	2.36 in (60 mm)
Reduction ratio	3:1

## 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 100 rpm 86 °F (30 °C)
Mounting position	Any position
Efficiency	96 %
Maximum radial force Fr	340 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	450 N 100 rpm, during 30000 hour at 30 °C
Moment of inertia	0.135 kg.cm <sup>2</sup>
Continuous output torque	247.82 lbf.in (28 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	398.28 lbf.in (45 N.m) 100 rpm 86 °F (30 °C)
Net Weight	1.98 lb(US) (0.9 kg)
Input diameter	0.55 in (14.0 mm)

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## Environment

Noise level	58 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	3606480388187
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.68 in (6.8 cm)
Package 1 Width	2.68 in (6.8 cm)
Package 1 Length	5.12 in (13.0 cm)
Package 1 Weight	28.89 oz (819.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	18.81 lb(US) (8.533 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) <a href="#">EU RoHS Declaration</a>
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>
PVC free	Yes

## Contractual warranty

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
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