# GBY060005K

angular gearbox straight teeth GBY, Lexium, 60mm, reduction 5:1, 16arc.min, 24N.m





#### Main

Range Compatibility	Lexium 62 Lexium ILS Lexium SD3 Lexium ILA Lexium 32 Lexium 62 ILM Lexium 52					
Product or Component Type	Angular planetary gearbox					
Gear box type	Straight teeth					
Device short name	GBY					
Product compatibility	BMH 2.76 in (70 mm), 1 BMH 2.76 in (70 mm), 2 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), 1 BSH 2.76 in (57 mm), 2 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), 3 SH3 MH3 ILM					
Gearbox external diameter	2.36 in (60 mm)					
Reduction ratio	5:1					

#### Complementary

Maximum torsional backlash	16 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	94 %
Maximum radial force Fr	340 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$
Maximum axial force Fa	450 N 100 rpm, during 30000 hour at 30°C
Moment of inertia	0.189 kg.cm <sup>2</sup>
Continuous output torque	212.42 lbf.in (24 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	336.33 lbf.in (38 N.m) 100 rpm 86 °F (30 °C)
Net Weight	3.75 lb(US) (1.7 kg)
Input diameter	0.55 in (14.0 mm)

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#### Environment

Noise level	70 dB 1 m, no-load
IP Degree of Protection	Shaft output IP54
Ambient temperature for operation	-13194 °F (-2590 °C)

# Ordering and shipping details

Category	18283-NEUGART GEARBOXES
Discount Schedule	PC53
GTIN	3606480388668
Returnability	No
Country of origin	DE

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.82 in (9.7 cm)
Package 1 Width	3.15 in (8.0 cm)
Package 1 Length	7.09 in (18.0 cm)
Package 1 Weight	3.73 lb(US) (1.693 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	5
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	20.16 lb(US) (9.143 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 www.P65Warnings.ca.gov					
REACh Regulation	☑ REACh Declaration					
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
Mercury free	Yes					
China RoHS Regulation	China RoHS Declaration					
RoHS exemption information	₫Yes					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	No need of specific recycling operations					
PVC free	Yes					

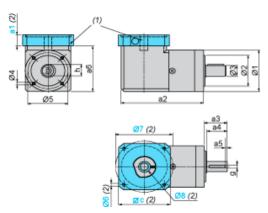
#### Contractual warranty

Warranty	18	3 months

# Product data sheet Dimensions Drawings

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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	а6
112.5	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52	80.3

#### Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	а6
4.43	1.38	1.18	0.09	0.63	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05	3.16