Product data sheet

Specification





gearbox straight teeth GBX, Lexium, 60mm, reduction 3:1, 10arc.min, 28N.m

GBX060003K

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 454.00 USD

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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Efficiency	96 %					
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	0.135 kg.cm²					
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)					

Environment

Noise Level	58 dB 1 m, no-load				
Ip Degree Of Protection	Shaft output IP54				
Ambient Temperature For	-13194 °F (-2590 °C)				

Ordering and shipping details

Category	US1PC5318283
Discount Schedule	PC53
Gtin	3606480388187
Returnability	Yes
Country Of Origin	US

Packing Units

•						
Unit Type Of Package 1	PCE					
Number Of Units In Package 1	1					
Package 1 Height	2.68 in (6.800 cm)					
Package 1 Width	2.68 in (6.800 cm)					
Package 1 Length	5.12 in (13.000 cm)					
Package 1 Weight	28.78 oz (816.000 g)					
Unit Type Of Package 2	S02					
Number Of Units In Package 2	10					
Package 2 Height	5.91 in (15.000 cm)					
Package 2 Width	11.81 in (30.000 cm)					
Package 2 Length	15.75 in (40.000 cm)					
Package 2 Weight	18.81 lb(US) (8.533 kg)					

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Ø	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

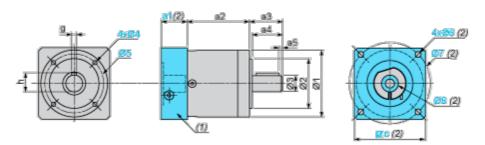
Certifications & Standards

Reach Regulation	REACh Declaration					
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
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					
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					

GBX060003K

Dimensions Drawings

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	а3	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