# **Product data sheet**

Specifications





# angular gearbox straight teeth GBY, Lexium, 80mm, reduction 25:1, 15arc.min, 110N.m

GBY080025K

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

Price\*: 1,306.00 USD

### Main

Range Compatibility	Lexium 32 Lexium 62 ILM Lexium 52 Lexium 62						
Gear box type	Straight teeth						
Product or Component Type	Angular planetary gearbox						
Device short name	GBY						
Product compatibility	BMH 2.8 in (70 mm), 1 BMH 2.8 in (70 mm), 2 BMH 2.8 in (70 mm), 3 BSH 2.8 in (70 mm), 1 BSH 2.8 in (70 mm), 2 BSH 2.8 in (70 mm), 2 BSH 3.8 in (70 mm), 3 SH3 MH3 ILM						
Gearbox external diameter	3.1 in (80 mm)						
Reduction ratio	25:1						

## Complementary

Maximum torsional backlash	15 arc.min						
Torsional rigidity	6.5 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 86.0000000000 °F (30 °C)						
mounting position	Any position						
Efficiency	92 %						
Maximum radial force Fr	650 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$						
Maximum axial force Fa	900 N 100 rpm, during 30000 hour at 30°C						
moment of inertia	0.859 kg.cm²						
Continuous output torque	973.6 lbf.in (110 N.m) 100 rpm 86.00000000000 °F (30 °C)						
Maximum output torque	1557.7 lbf.in (176 N.m) 100 rpm 86.0000000000 °F (30 °C)						
Product Weight	11.02 lb(US) (5 kg)						

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

Input diameter 0.7 in (19.0 mm)

## **Environment**

Noise level	73 dB 1 m, no-load				
IP Degree of Protection	Shaft output IP54				
ambient temperature for operation	-13.0000000000194.0000000000 °F (-2590 °C)				

# Ordering and shipping details

Category	US1PC5318283					
Discount Schedule	PC53					
GTIN	3606485312347					
Returnability	No					
Country of origin	DE					

# **Packing Units**

Unit Type of Package 1	PCE					
Number of Units in Package 1	1					
Package 1 Height	3.9 in (9.8 cm)					
Package 1 Width	4.3 in (11.0 cm)					
Package 1 Length	7.9 in (20.0 cm)					
Package 1 Weight	9.06 lb(US) (4.11 kg)					
Unit Type of Package 2	S03					
Number of Units in Package 2	2					
Package 2 Height	11.8 in (30.0 cm)					
Package 2 Width	11.8 in (30.0 cm)					
Package 2 Length	15.7 in (40.0 cm)					
Package 2 Weight	19.694 lb(US) (8.933 kg)					



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Transparency RoHS/REACh

### Well-being performance

	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>Ø</b>	Pvc Free	

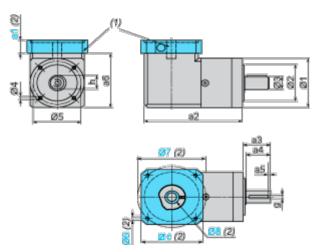
#### **Certifications & Standards**

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					

#### GBY080025K

#### **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	а5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
161.5	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70	88.3

#### Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5	a6
6.36	1.57	1.42	0.15	0.88	0.19	3.15	2.36 h7	0.78 h7	M6 x 0.39	2.76	3.48