

GBX120005K

gearbox straight teeth GBX - Ø 120 mm -
reduction 5:1 < 7 arc.min - 195 N.m



Main

Range Compatibility	Lexium 62 ILM Lexium 32 Lexium 62 Lexium SD3 Lexium 52 Lexium 28 Lexium 32i
Product or Component Type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BMI 3.94 in (100 mm), 2 BMI 3.94 in (100 mm), 3 BMH 5.51 in (140 mm), 1 BMH 5.51 in (140 mm), 2 BSH 3.94 in (100 mm), 4 BSH 5.51 in (140 mm), 1 BSH 5.51 in (140 mm), 2 BRS3 BCH2 3.94 in (100 mm), 1 BCH2 3.94 in (100 mm), 2 BCH2 5.12 in (130 mm), 1 BCH2 5.12 in (130 mm), 2 BCH2 5.12 in (130 mm), 3 BCH2 5.12 in (130 mm), 4 SH3 MH3 ILM
Gearbox external diameter	4.72 in (120 mm)
Reduction ratio	5:1

Complementary

Maximum torsional backlash	7 arc.min
Torsional rigidity	12 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	1500 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	2100 N 100 rpm, during 30000 hour at 30°C
Moment of inertia	1.53 kg.cm²
Continuous output torque	1725.89 lbf.in (195 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	2761.43 lbf.in (312 N.m) 100 rpm 86 °F (30 °C)
Net Weight	13.23 lb(US) (6 kg)
Input diameter	0.94 in (24.0 mm)

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Environment

Noise level	65 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	3606480388453
Nbr. of units in pkg.	1
Package weight(Lbs)	11.96 lb(US) (5.427 kg)
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.92 in (12.5 cm)
Package 1 width	4.92 in (12.5 cm)
Package 1 Length	7.09 in (18 cm)
Unit Type of Package 2	S06
Number of Units in Package 2	5
Package 2 Weight	88.48 lb(US) (40.135 kg)
Package 2 Height	29.53 in (75 cm)
Package 2 width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)
Package 3 Height	28.94 in (73.5 cm)

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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
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
99.5	55	50	5	28	8	115	80 h7	25 h7	M10 x 16	100

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
3.92	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94