GBX120032K

gearbox straight teeth GBX, Lexium, 120mm, reduction 32:1, 9arc.min, 260N.m





Main

Range compatibility	Lexium 32i Lexium 52 Lexium 62 ILM Lexium 28 Lexium 32 Lexium 62
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BMI (70 mm, 2 motor stacks) BMI (70 mm, 3 motor stacks) BMH (70 mm, 2 motor stacks) BMH (70 mm, 3 motor stacks) BSH (70 mm, 2 motor stacks) BSH (70 mm, 3 motor stacks) BSH (70 mm, 1 motor stacks) BMH (100 mm, 1 motor stacks) BSH (100 mm, 1 motor stacks) BCH2 (100 mm, 1 motor stacks) BCH2 (130 mm, 1 motor stacks) SH3 MH3 ILM
Gearbox external diameter	120 mm
Reduction ratio	32:1

Complementary

Complementary					
Maximum torsional backlash	9 arc.min				
Torsional rigidity	13 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 at 100 rpm at 30 °C				
Mounting position	Any position				
Efficiency	94 %				
Maximum radial force Fr	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C				
Maximum axial force Fa	2100 N at 100 rpm, during 30000 hour at 30°C				
Moment of inertia	1.3 kg.cm²				
Continuous output torque	260 N.m at 100 rpm at 30 °C				
Maximum output torque	416 N.m at 100 rpm at 30 °C				
Net weight	8 kg				
Input diameter	24.0 mm				

Environment

Noise level	65 dB at 1 m, no-load
IP degree of protection	Shaft output: IP54
Ambient temperature for operation	-2590 °C

Packing Units

3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.5 cm
Package 1 Width	12.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	7.171 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	14.797 kg

Offer Sustainability

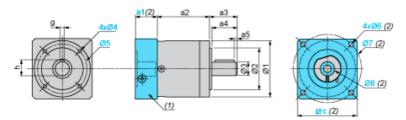
Sustainable offer status	Green Premium product				
REACh Regulation	☐REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
Mercury free	Yes				
China RoHS Regulation	☑ China RoHS Declaration				
RoHS exemption information	₫Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations				
PVC free	Yes				

Contractual warranty

Warranty	18 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
126.5	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
4.98	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94