## GBX080010K

gear box straight teeth GBX - Ø 80 mm - reduction 10:1 <7 arc.min - 38 N.m





#### Main

Wilding	
Range compatibility	Lexium 62 ILM Lexium 52 Lexium 32 Lexium 28
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BMH 2.76 in (70 mm), 3 BSH 2.76 in (70 mm), 3 BCH2 3.15 in (80 mm), 1 SH3 MH3 ILM
Gearbox external diameter	3.15 in (80 mm)
Reduction ratio	10:1

### Complementary

Maximum torsional backlash	7 arc.min					
Torsional rigidity	6 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	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	0.39 kg.cm <sup>2</sup>					
Continuous output torque	336.33 lbf.in (38 N.m) 100 rpm 86 °F (30 °C)					
Maximum output torque	539.89 lbf.in (61 N.m) 100 rpm 86 °F (30 °C)					
Net Weight	4.63 lb(US) (2.1 kg)					

#### Environment

Noise level	60 dB 1 m, no-load
IP degree of protection	Shaft output IP54
Ambient temperature for operation	-13194 °F (-2590 °C)

# Ordering and shipping details

18283 - NEUGART GEARBOXES			
PC53			
03606485317496			
1			
4.3 lb(US) (1.95 kg)			
No			
DE			
	PC53 03606485317496 1 4.3 lb(US) (1.95 kg) No		

## Packing Units

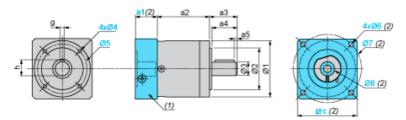
3	
Unit Type of Package 1	PCE
Package 1 Height	4.25 in (10.8 cm)
Package 1 width	4.25 in (10.8 cm)
Package 1 Length	6.54 in (16.6 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Weight	18.29 lb(US) (8.294 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 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				

# GBX080010K

### 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
72	40	36		22.5	6	80	60 h7	20 h7	M6 x 10	70

#### Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.83	1.57	1.42	0.16	089	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76