

# gearbox with straight teeth GBX- Ã~ 160 mm- reduction 20:1- < 10arcmin- 800 N.m

GBX1600201004F

- ! Discontinued on: Jun 15, 2023
- ! To be end-of-service on: Mar 31, 2028

# Main

Range compatibility	Lexium 15
	Lexium 62
	Lexium 32
	Lexium 52
	Lexium 62 ILM
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Gearbox external diameter	160 mm
Product compatibility	BSH (100 mm, 4 motor stacks)
	SH3
	MH3
	ILM
Reduction ratio	20:1

## Complementary

Maximum torsional backlash	10 arc.min
Torsional rigidity	41 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
Efficiency	94 %
mounting position	Any position
Maximum radial force Fr	4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	6000 N at 100 rpm, during 30000 hour at 30°C 8000 N at 100 rpm, during 10000 hour at 30°C
moment of inertia	6.64 g.cm²
Continuous output torque	800 N.m at 100 rpm at 30 °C
Maximum output torque	1280 N.m at 100 rpm at 30 °C
Product weight	22 kg

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

## **Environment**

Noise level	70 dB at 1 m, no-load
IP degree of protection	Shaft output: IP54
ambient temperature for operation	-2590 °C

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	45.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	23.0 kg

# **Contractual warranty**

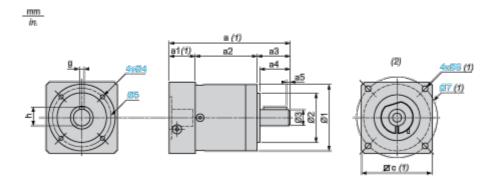
Warranty 18 months

Sep 9, 2024

## GBX1600201004F

## **Dimensions Drawings**

#### **Dimensions**



- (1) Dimensions a, a1, c, Ø6 and Ø7 depend on the planetary gearbox/servo motor combination
- (2) Servo motor assembly

#### Dimensions in mm

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 (oblong)	Ø5
153.5	87	80	8	43	12	160	130 h7	40 h7	M12 x 20	145

#### Dimensions in mm

а	a1	С	Ø6	Ø7
305	64.5	140 x 140	M8	115

#### Dimensions in in.

a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4 oblong	Ø5
6.04	3.42	3.14	0.31	1.69	0.47	6.29	5.12 h7	1.57 h7	M12 x 0.79	5.70

### Dimensions in in.

а	a1	С	Ø6	Ø7
12.00	2.53	0.21 x 0.21	M8	4.52