

2.3. Bevel Gear Unit KGT

The LEONARD bevel gear KGT (see figure 2.3.1 and 2.3.2) is available with a ratio of 1:1. This gearbox is used as a distribution gear unit for different rotary cam switches or a rotary cam switch and an encoder, when subsequently fitting is not possible.

The input and output of the bevel gear unit KGT could alternatively be supplied with a boring $\varnothing 20H7$ resp. $\varnothing 15H7$ or a spindle $\varnothing 20h6$ resp. $\varnothing 15h6$. The height of the spindle centre is either 71 mm or 60 mm. Optionally it is possible to choose any given height. The standard type of the bevel gear unit KGT (see figure 2.3.1) is supplied with a hollow shaft on the input side and spindles on both output sides.

The gearbox is mounted by three screws M8 on the base. When fitting, attention must be paid to the flatness of the mounting plate and to the equality of height of the spindle centre.

Mechanical data:

housing:	cast aluminum
housing colour:	RAL 6011, „green hammer finish“, optional seawaterproof performance
gear wheels:	spiral tooth; life lubrication, maintenance free
spindle:	$\varnothing 20h6$ resp. $\varnothing 15h6$, ground, with centre hole according to DIN 332, with feather key according to DIN 6885
hollow shaft:	$\varnothing 20H7$ resp. $\varnothing 15H7$, 40 mm long, with feather key according to DIN 6885
bearing:	deep groove ball bearings
max. drive speed:	3000 r.p.m.
max. torque:	15 Nm
fitting position:	any
weight:	4,5 kg
ambient temperature:	-25 °C to +90 °C
storage temperature:	-30 °C to +100 °C

Table of dimensions of the standard types:

type	hollow shaft (input) [mm]	spindle (output) [mm]	height H [mm]	suitable for rotary cam switch
KGT-A60	$\varnothing 20H7$	$\varnothing 20h6$	60	GSW100, GSW100E, GSW100M
KGT-A71	$\varnothing 15H7$	$\varnothing 15h6$	71	LNSE, LNSW

Ordering instructions for bevel gear unit:

type	input with hollow shaft	output with hollow shaft	output with hollow shaft	height [mm]	diameter
	*1)	*1)	*1)		*2)

Product overview:

KGT	-	A	C_R	C_L	71	-	20
		[no statement]	[no statement]	[no statement]	60		15
					[diverse]		

Example:

KGT-A C_R 60

*1) For a spindle we don't need any statement!

*2) If this information is missing, the diameters are either 15 mm, if the height is 71 mm, or the diameters are 20 mm, if the height is 60 mm.



Fig. 2.3.1:
Bevel Gear Unit KGT-A60

