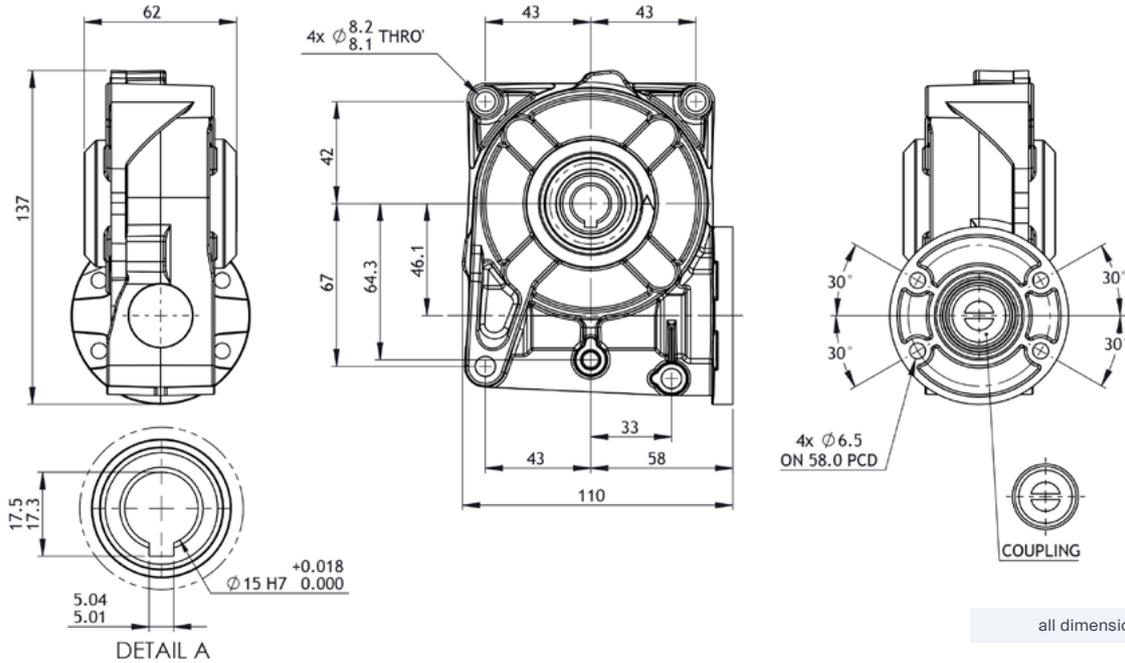


# GB12 Right-angle gearbox // Composite gears

12.5:1 - 75:1 ratio // 32.0 Nm

**parvalux**  
by **maxon**



Part number key											
Modular	#####										
Standard	#####										
Calculated data	#####										
Technical data											
1 Part number	-	-	-	-	-	-	-	-	-	-	-
2 Gear ratio	:1	12.5	14	15	19	21	25	30	50	60	75
3 Stages		1	1	1	1	1	1	1	1	1	1
4 Max. continuous torque (S1) <sup>2,3</sup>	<b>Nm</b>	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.0
5 Max. intermittent torque <sup>3</sup>	<b>Nm</b>	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	29.0
6 Efficiency	<b>%</b>	85	83	83	80	78	75	72	60	55	50
7 Backlash	<b>arc.min</b>	10-25	10-25	10-25	10-25	10-25	10-25	10-25	10-25	10-25	10-25
8 Max. axial load (dynamic)	<b>N</b>	300	300	300	300	300	300	300	300	300	300
9 Max. radial load, 12 mm from flange	<b>N</b>	500	500	500	500	500	500	500	500	500	500
10 Weight	<b>Kg</b>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
11 Gear material		Composite									

<sup>2</sup> S1 duty cycle based on 3000 RPM input speed <sup>3</sup> Please refer to the thermal rating limits of the gearbox found on page 255

Compatible products											
BLDC	+L mm	PMDC	+L mm	PMDC	+L mm	AC	+L mm	Gearbox output position			
PBL60-50	90.0	BRx63-25	95.0	PM70-125	125.0	SD13	152.0				
PBL60-70	110.0	BRx63-55	125.0	PM70-146	146.0	SD18	158.0				
PBL70-70	114.0	BRx70-40	125.0	PM90-150	153.0	SD48	170.0				
PBL70-80	124.0	BRx70-60	146.0	PM90-180	183.0						
PBL86-55	111.0	BRx90-50	153.0	EPM50-25	119.0			<b>Key</b> Standard combination Modular combination			
PBL86-80	136.0	BRx90-75	183.0	EPM50-38	130.0						
		PM1	149.0	EPM50-50	145.0						
		PM2	162.0	EPM50-63	155.0						
		PM3	137.0	EPM63-50	150.0						
		PM4	149.0	EPM63-50 (V)	163.0						
		PM5	162.0	EPM63-75	175.0						
		PM6	175.0	EPM63-75 (V)	188.0						
		PM50	162.0	EPM63-100	200.0						
		PM60	193.0	EPM63-100 (V)	213.0						

(V) = ventilated

+L mm = approximate added length\*

\*additional length may also be required for mounting flange between components