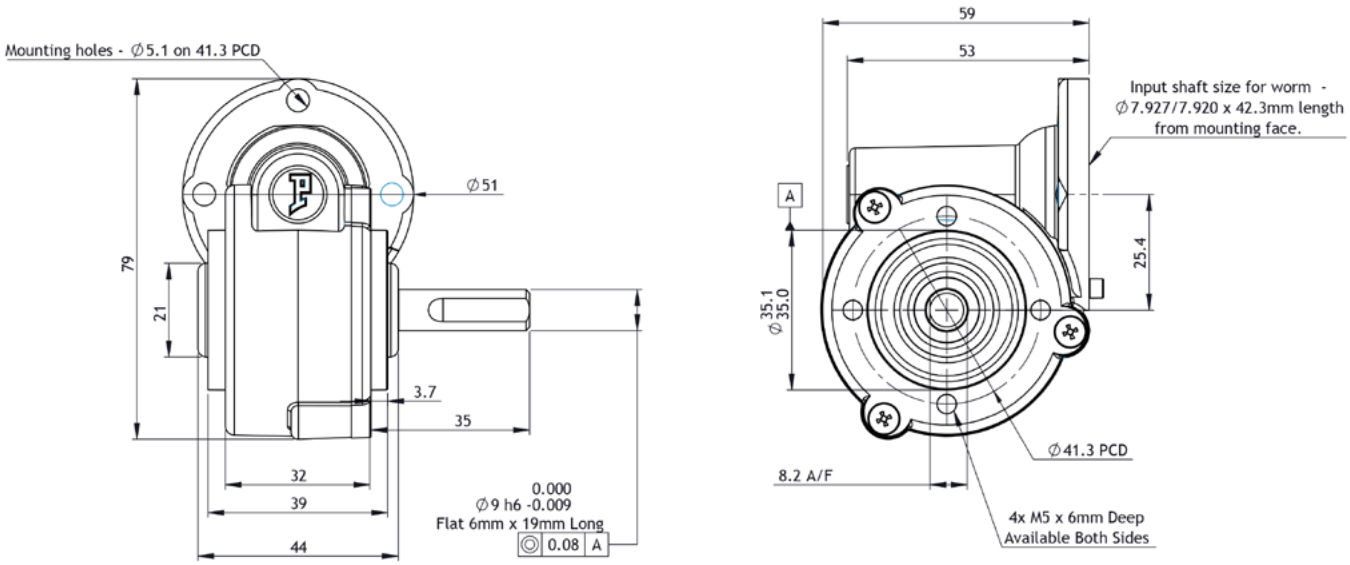
S Box Right-angle gearbox // Composite gears

4:1 - 70:1 ratio // 4.8 Nm

parvalux by maxon



all dimensions in mm

Part number key	
Modular	######
Standard	######
Calculated data	######

[1] Other ratios available on request **(:1)**: 6, 7, 8, 9, 11, 12, 13, 14, 16, 18, 22, 25, 27, 36, 44, 54, 66

	Technical data										
1	Part number		-	-	-	-	-	-	-	-	-	-
2	Gear ratio [1]	:1	4	5	10	15	20	30	40	48	60	70
3	Stages		1	1	1	1	1	1	1	1	1	1
4	Max. continuous torque (S1) [2] [3]	Nm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.2	2.0
5	Max. intermittent torque [3]	Nm	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.0	3.5	3.2
6	Efficiency	%	80	80	80	75	70	65	60	55	48	40
7	Backlash	arc.min	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)	N	150	150	150	150	150	150	150	150	150	150
9	Max. radial load, 12 mm from flange	N	250	250	250	250	250	250	250	250	250	250
10	Weight	Kg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11	Gear material		Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite

[2] S1 duty cycle based on 3000 RPM input speed [3] Please refer to the thermal rating limits of the gearbox found on page 255

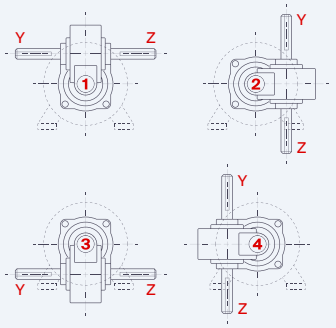
Compatible products

BLDC	+L mm
PBL42-15	47.0
PBL42-30	67.0
PBL60-50	90.0
PBL60-70	110.0

PMDC	+L mm
BRx42-25	70.0
BRx42-40	85.0
BRx52-30	95.0
BRx52-58	125.0
BRx63-25	95.0
BRx63-55	125.0
PM7	84.0
PM8	97.0
PM9	110.0
PM10	107.0
PM11	126.0

AC	+L mm
SD1	119.0
SD8	125.0
SD21	95.0
SD28	144.0
SD29	147.0
SD38	128.0
SD41	107.0

Gearbox output position



Key

Standard combination

Modular combination

+L mm = approximate added length*

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