

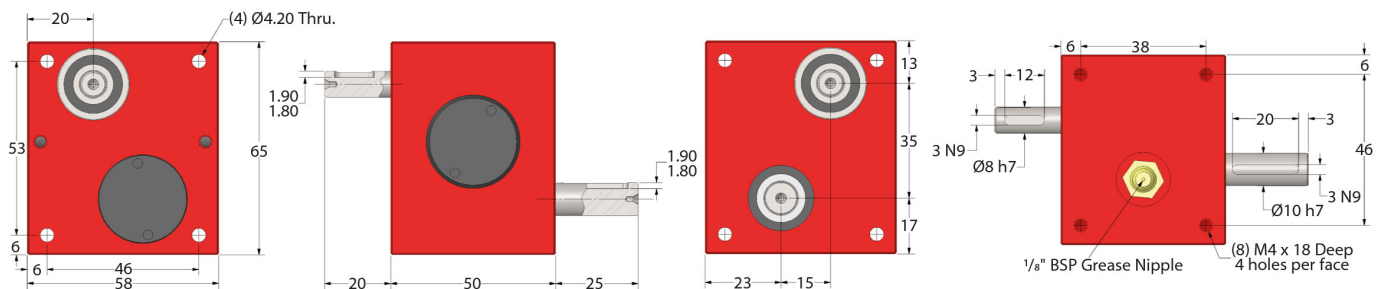
PP35

GEARBOXES

Double Reduction Worm Gear Reducers

2.2 – 4.1 Nm 25:1 - 900:1

PP35



Part Number	Ratio	Max Input Rpm	Max Output Rpm	Efficiency at 1000 Rpm	Self Locking Output
PP35-100	100:1	3000	30.00	52%	✗
PP35-200	200:1	3000	15.00	45%	✗
PP35-400	400:1	3000	7.50	34%	✓
PP35-SP	25:1 - 900:1	Special Ratios : Replace SP with required ratio			

Weight: 0.70 kg. Backlash: $\approx 2^\circ$. Greased for Life: Shell Gadus S5 V42P 2.5.

Max. Input Speed: 3,000 Rpm (short term).

Self Locking Output: Subject to ratio and only applies in static condition.

Amount of locking effect may vary due to manufacturing processes.

Max. Overhung and Thrust Loads at 1000 Rpm: Input Overhung Load (F_{xb}) = 6 kg.

Output Overhung Load (F_{xa}) = 12 kg. Output Thrust Load (F_a) = 10 kg.

Output Keys: KK3-12, KK3-20.

Standard Shaft Rotation Direction is Opposite.

Same direction available at SP Price.

Testing in your application is necessary.

You will need to assess duty cycles and confirm suitability with your own calculations.

Output Torque Nm

RPM Input	Reduction Ratio		
	100:1	200:1	400:1
3000	2.2	2.3	2.5
2000	2.5	2.7	2.8
1000	2.8	3.0	3.1
500	3.1	3.5	3.6
100	3.8	3.9	4.0
50	3.9	4.0	4.0
10	4.0	4.1	4.1

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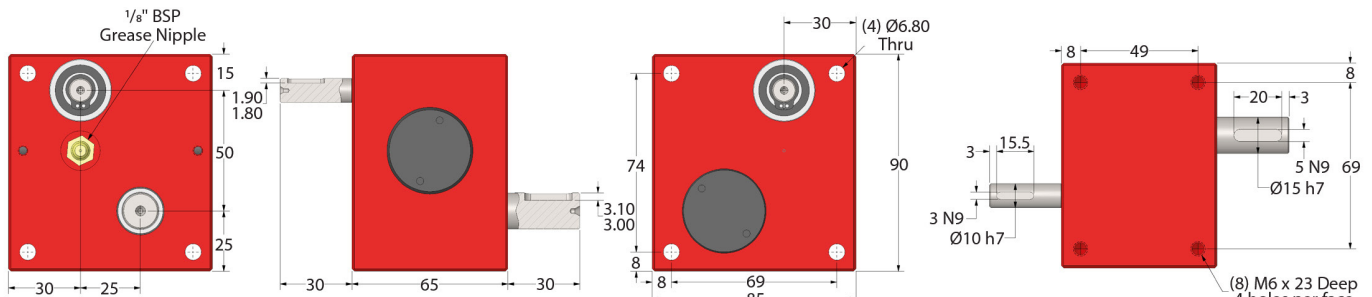
PP50

GEARBOXES

Double Reduction Worm Gear Reducers

6.5 – 12.8 Nm **25:1 - 900:1**

PP50



Part Number	Ratio	Max Input Rpm	Max Output Rpm	Efficiency at 1000 Rpm	Self Locking Output
PP50-100	100:1	3000	30.00	54%	✗
PP50-200	200:1	3000	15.00	48%	✗
PP50-400	400:1	3000	7.50	36%	✓
PP50-SP	25:1 - 900:1	Special Ratios : Replace SP with required ratio			

Weight: 1.80 kg. Backlash: $\approx 2^\circ$. Greased for Life: Shell Gadus S5 V42P 2.5.

Max. Input Speed: 3,000 Rpm (short term).

Self Locking Output: Subject to ratio and only applies in static condition.

Amount of locking effect may vary due to manufacturing processes.

Max. Overhung and Thrust Loads at 1000 Rpm:

Input Overhung Load (F_{xb}) = 10 kg.

Output Overhung Load (F_{xa}) = 30 kg. Output Thrust Load (F_a) = 20 kg.

Output Keys: KK3-15, KK5-20.

Standard Shaft Rotation Direction is Opposite.

Same direction available at SP Price.

Testing in your application is necessary.

You will need to assess duty cycles and confirm suitability with your own calculations.

Output Torque Nm

RPM Input	Reduction Ratio		
	100:1	200:1	400:1
3000	6.5	7.1	8.2
2000	7.2	7.8	8.9
1000	6.2	9.0	9.8
500	8.2	10.2	11.5
100	11.0	11.6	12.2
50	12.0	12.3	12.6
10	12.7	12.8	12.8

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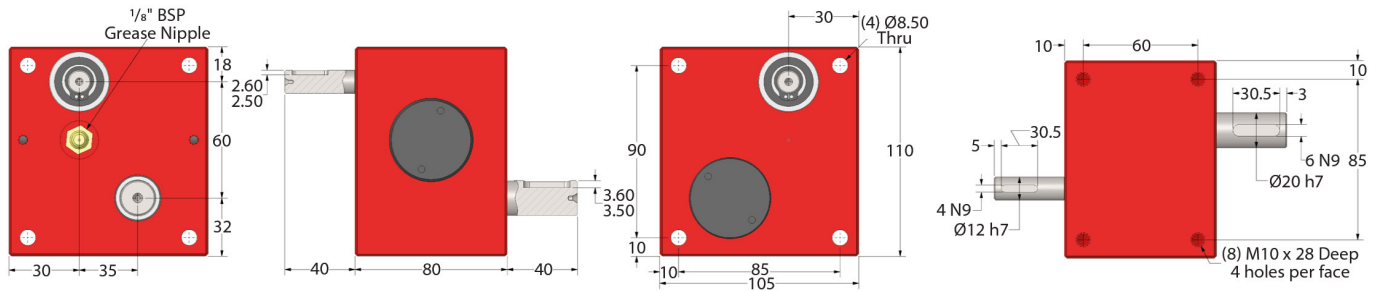
PP60

GEARBOXES

Double Reduction Worm Gear Reducers

17.8 – 34 Nm **25:1 - 900:1**

PP60



Part Number	Ratio	Max Input Rpm	Max Output Rpm	Efficiency at 1000 Rpm	Self Locking Output
PP60-100	100:1	3000	30.00	55%	✗
PP60-200	200:1	3000	15.00	50%	✗
PP60-400	400:1	3000	7.50	37%	✓
PP60-SP	25:1 - 900:1	Special Ratios : Replace SP with required ratio			

Weight: 3.30 kg. Backlash: $\approx 2^\circ$. Greased for Life: Shell Gadus S5 V42P 2.5.

Max. Input Speed: 3,000 Rpm (short term).

Self Locking Output: Subject to ratio and only applies in static condition.

Amount of locking effect may vary due to manufacturing processes.

Max. Overhung and Thrust Loads at 1000 Rpm:

Input Overhung Load (F_{xb}) = 15 kg.

Output Overhung Load (F_{xa}) = 45 kg. Output Thrust Load (F_a) = 35 kg.

Output Keys: KK4-30, KK6-30.

Standard Shaft Rotation Direction is Opposite.

Same direction available at SP Price.

Testing in your application is necessary.

You will need to assess duty cycles and confirm suitability with your own calculations.

Output Torque Nm

RPM Input	Reduction Ratio		
	100:1	200:1	400:1
3000	17.8	19.4	22.5
2000	20.0	21.6	24.8
1000	22.5	25.0	26.8
500	26.1	28.0	31.6
100	30.5	32.0	34.0
50	33.0	34.0	34.0
10	34.0	34.0	34.0

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