

Industrial Planetary gearheads

IP series

The IP series gearheads have been designed to provide long life in industrial automation, industrial, scientific and process control applications that require repetitive cycling featuring high dynamics, accurate velocity or positional control. Advanced manufacturing techniques, combined with a design focused on the needs of state of the art motion control has resulted in a combination of optimised performance characteristics combined with economic prices.



Key features

- Planetary construction for high torque and compact dimensions
- Standard *NEMA* frame sizes
- Suitable for use with both servo and stepper motors
- Wide range of standard ratios with additional options also available
- Exact gear ratios simplify calibration in positional control systems
- 'Simplefit' mounting kit option to fit most motors
- Standard options available from stock

Wide range of standard ratios:

IP series gearheads are available in a wide range of ratios, many of which being from stock as shown below:

Single stage units	2 stage units	3 stage units
4:1	16:1	125:1
• 5:1	20:1	250:1
7:1	• 25:1	500:1
• 10:1	• 50:1	1000:1
	70:1	
	• 100:1	

• Standard ratios:

Gear ratio options shown in **bold** are usually available from stock

Semi-standard

Other ratios are also readily available to special order.

Specification

Gearhead	Number of stages	Maximum Continuous Torque* (Nm)	Max. Peak Torque* (Nm)	Typical Backlash (arc min.)	Efficiency	Max. Input Speed (rpm)	Max. Radial Load (N)	Max. Axial Load (N)
IP043-M01	1	3.3	6.0	20	92%			
IP043-M02	2	6.7	12	30	84%	6000	500	350
IP043-M03	3	10.0	20	40	78%			
IP057-M01	1	6.0	12	20	92%			
IP057-M02	2	15	24	30	84%	5000	500	350
IP057-M03	3	20	40	40	78%			

Note * De-rate by 10% for gear ratio of 10:1

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Dimensions:

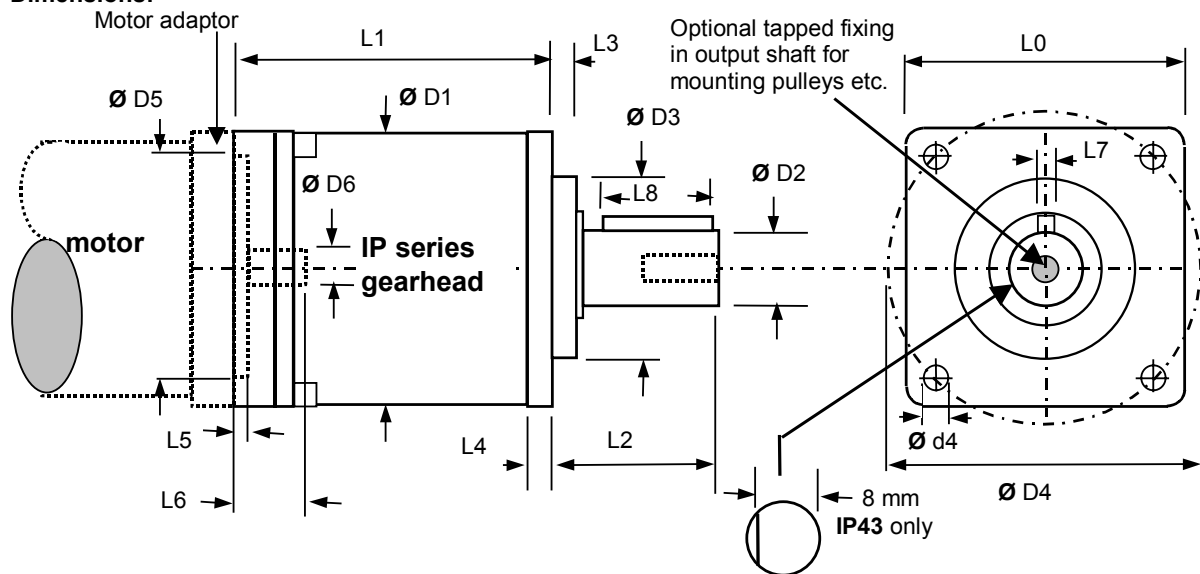


Table of dimensions: mm

Gearhead model		IP43			IP 57		
		MO1	MO2	MO3	MO1	MO2	MO3
Gearhead flange square	L0	42.8			57.2		
Gearhead Length	L1	47	56	66	54		
Ratios 3:1 4:1 5:1					67.75		
10:1						66	
25:1						79.75	
50:1 100:1							92.75
250:1 500:1 1000:1							
Shaft length from flange	L2	20			25.4		
Output Register length	L3	1.5			1.6		
Flange thickness	L4	4.3			5.2		
Input register length	L5	2.0			2.5		
Max. input shaft length	L6	To be advised			Dependent on adapter length		
Output shaft Key width	L7	See shaft flat details on IP43			3.2		
Output shaft key length	L8	Shaft flat length 15 mm			19.0		
Diametric dimensions							
Gearhead diameter	D1	42.8			57.2		
Output shaft diameter	D2	9.504 / 9.516 *			12.67 / 12.69 *		
Output register diameter	D3	22.2 / 22.225			38.05 / 38.10		
Mounting hole PCD	D4	50.8			66.68		
Mounting hole diameter	D4	3.78			5.1		
Input register diameter	D5	22.22 / 22.24			38.10 / 38.12		
Max. motor shaft dia.	D6	8			8		

Note * Metric shafts are available to special order as follows:

IP43: \varnothing 8 mm IP57: \varnothing 12 mm

Clamp pinion for IP series Planetary gearhead

IP series gearheads are provided with an optional pinion with an integrated clamp for easy mounting to the motor shaft.

Simply slide the pinion into the correct position on the motor's shaft and tighten the clamp

