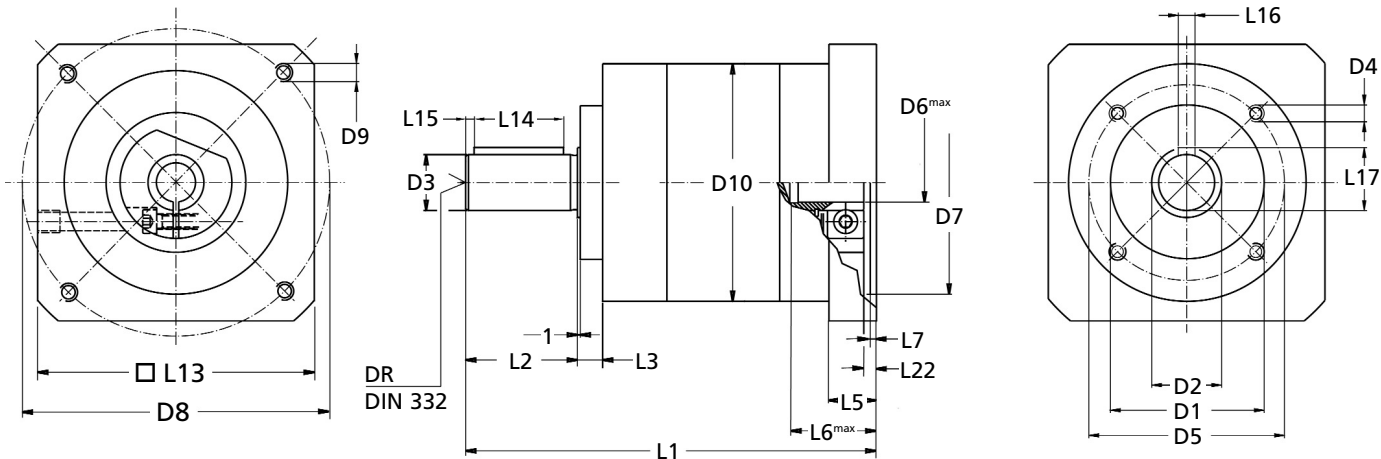


## Economy Planetary Gearheads

One Stage **3:1 - 10:1**



Part Number	Ratios Available*	Nom. Output Torque Relating to $n_2 = 100\text{Rpm}$ $T_{2N}$ (Nm)	Emergency Stop Torque <sup>(1)</sup> $T_{2NOT}$ (Nm)	Max. Acceleration Torque <sup>(2)</sup> $T_{2B}$ (Nm)	Max Input Speed $n_{1MAX}$ (Rpm)	Backlash (arcmin)	Torsional Rigidity $C_t$ (Nm/arcmin)	Max Axial Force $F_A$ (N)	Max Radial Force $F_R$ (N)	Efficiency $\eta$	Weight (kg)
PGE121-xx	3:1	-	-	-	6000	20	0.42	200	200	95%	0.4
	4:1	6.6	18	12	6000	20	0.42	200	200	95%	0.4
	5:1	6.6	18	12	6000	20	0.42	200	200	95%	0.4
	7:1	6.0	18	12	6000	20	0.42	200	200	95%	0.4
	9:1	5.0	15	10	6000	20	0.42	200	200	95%	0.4
PGE251-xx	3:1	18.0	54	36	6000	12	1.60	800	700	97%	1.3
	4:1	25.0	75	50	6000	12	1.60	800	700	97%	1.3
	5:1	25.0	75	50	6000	12	1.60	800	700	97%	1.3
	7:1	25.0	75	50	6000	12	1.60	800	700	97%	1.3
	10:1	14.0	42	28	6000	12	1.60	800	700	97%	1.3
PGE501-xx	3:1	38.0	114	76	5000	10	4.80	1600	2000	96%	2.6
	4:1	52.0	156	104	5000	10	4.80	1600	2000	96%	2.6
	5:1	52.0	156	104	5000	10	4.80	1600	2000	96%	2.6
	7:1	50.0	150	100	5000	10	4.80	1600	2000	96%	2.6
	10:1	38.0	114	76	5000	10	4.80	1600	2000	96%	2.6
PGE1001-xx	3:1	95.0	285	190	5000	10	10.00	2800	3000	95%	6.0
	4:1	115.0	345	230	5000	10	10.00	2800	3000	95%	6.0
	5:1	115.0	345	230	5000	10	10.00	2800	3000	95%	6.0
	7:1	115.0	345	230	5000	10	10.00	2800	3000	95%	6.0
	10:1	100.0	300	200	5000	10	10.00	2800	3000	95%	6.0
PGE2001-xx	3:1	170.0	510	340	4000	10	34.00	5800	6000	95%	12.5
	4:1	290.0	870	580	4000	10	34.00	5800	6000	95%	12.5
	5:1	290.0	870	580	4000	10	34.00	5800	6000	95%	12.5
	7:1	290.0	870	580	4000	10	34.00	5800	6000	95%	12.5
	10:1	170.0	510	340	4000	10	34.00	5800	6000	95%	12.5
PGE5001-xx	3:1	330.0	990	660	4000	10	74.00	10100	11000	95%	23.0
	4:1	500.0	1500	1000	4000	10	74.00	10100	11000	95%	23.0
	5:1	500.0	1500	1000	4000	10	74.00	10100	11000	95%	23.0
	7:1	500.0	1500	1000	4000	10	74.00	10100	11000	95%	23.0
	10:1	330.0	990	660	4000	10	74.00	10100	11000	95%	23.0

\*Shorter Delivery Times in bold. (1) Max. 1000 times during gearbox life. (2) At a maximum of 1000 cycles per hour. Percentage of the overall running time less than 5% and duration of the impulse under 0.3 sec. (3) Resultant force middle of output shaft at output speed 300 Rpm.

### Performance

**Nominal Input Speed:** 3,000 Rpm **Lifetime:** 10,000 hours. **Operating noise at ( $n_{an} = 3000$  Rpm):**  $\leq 70$  dB (A) **Lubrication:** greased for life, closed system .

**Surface Protection:** = Steel housing, galvanically treated. Aluminium flanges. **Installation Position:** Any, including variable orientation.

**Operating Temperature:** -10°C to +90°C **Direction of Rotation:** Same as Input **Degree of Protection:** IP 64

# GEARBOXES

PGE

## Economy Planetary Gearheads

One Stage 3:1 - 10:1

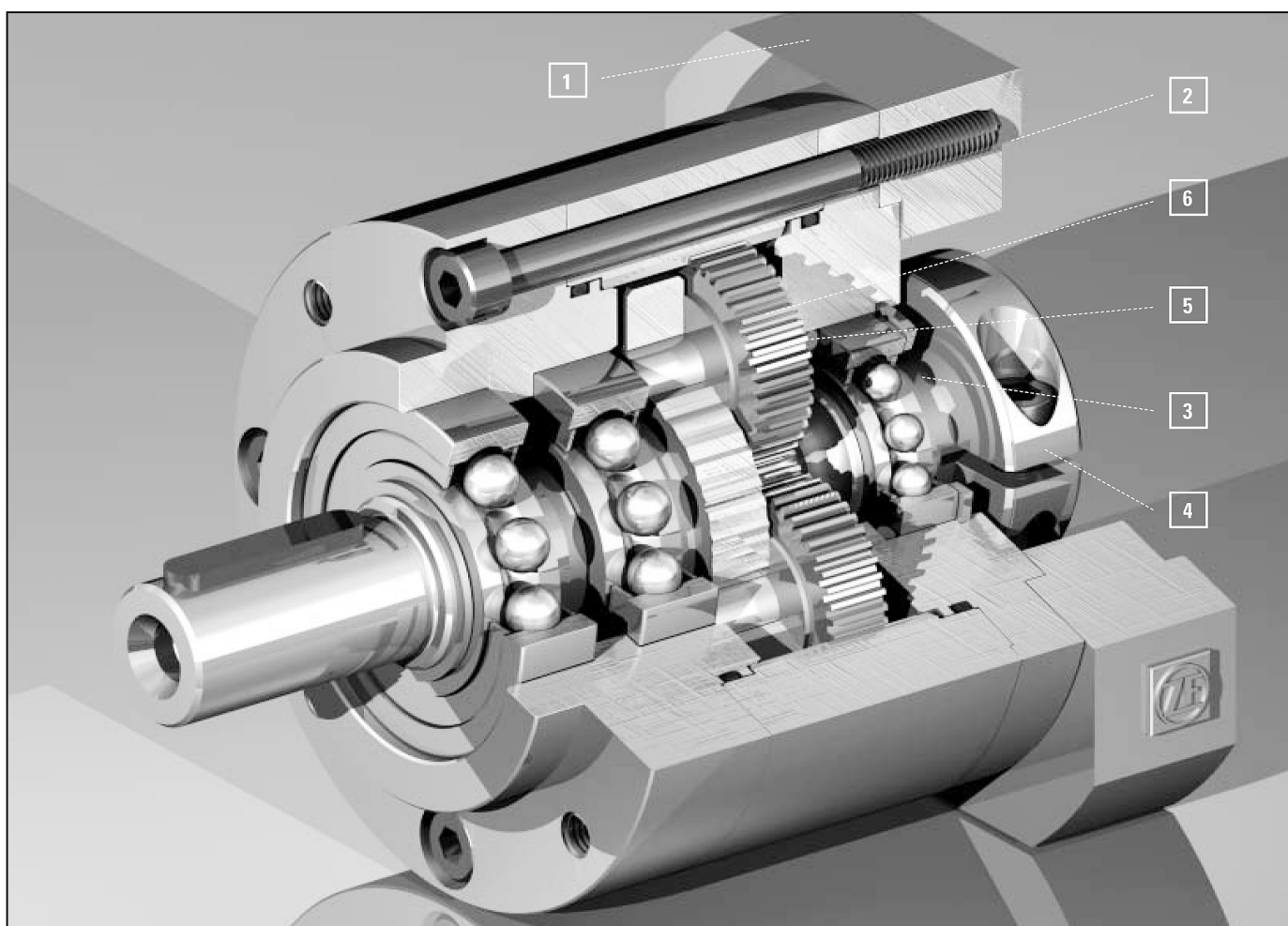
Discounts: 5+ -5%

Part Number	DR	D1 (j6)	D2	D3 (k6)	D4	D5	Min D6* (F6)	Max D6* (F6)	D10	L1	L2	L3	L5	Min L6	Max L6	L7*	Min L13*	L14	L15	L16	L17	L22*	Price Each 1 - 4
PGE121-xx	DM4	25	12	10	M4	33	3	11	40	95	23	6	15	14	26	3.0	40	18	2.5	3	11.2	3.5	£406.73
PGE251-xx	DM5	40	17	14	M5	52	6	14	65	127	30	9	19	18	30	3.5	65	25	2.5	5	16.0	4.5	£489.06
PGE501-xx	DM6	55	25	20	M6	70	9	19	85	160	40	9	25	22	40	4.0	85	32	4.0	6	22.5	5.5	£593.97
PGE1001-xx	DM10	80	30	25	M8	100	14	24	120	195	50	11	30	28	50	5.0	120	40	5.0	8	28.0	7.0	£761.84
PGE2001-xx	DM16	110	50	40	M10	130	19	32	155	260	80	15	31	30	60	5.5	155	70	5.0	12	43.0	8.0	£1123.39
PGE5001-xx	DM20	130	65	55	M12	165	24	32	190	296	100	20	35	30	60	5.5	190	80	10.0	16	59.0	8.0	£1769.04

D7\*, D8\*, D9\* : Adaptations available for all common servomotors, dimensions are available.

\*Dimensions depending on motor.

Note: Full part number needed from Technical pages to obtain exact ordering code.



### Features

- 1: Easy motor mounting with modular adaptor flange system.
- 2: Our input pilot ensures proper gearbox alignment to motor shaft, preventing shortened bearing life due to improper preloading.
- 3: High flexibility.
- 4: Motor shaft / gearbox connection with compression coupling, ensuring a slip free and non-wearing power transmission.
- 5: Integrating axial length compensation system absorbing thermal growth of motor shaft.
- 6: High efficiency and low running noise thanks to high gearing quality, cageless needle bearings in planetary gears and high grade lubricant.
- 7: High torsional rigidity and acceleration torques permitted due to robust design and optimised gearing geometry.
- 8: Six available gearbox sizes for output torques from 5 to 670 Nm.
- 9: Available ratios from 3:1 to 1000:1.
- 10: Maintenance free with lifetime grease lubrication.
- 11: For use in any installation position.

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**ondrives**

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Product information updated 1st April 2008 and subject to change. Please contact Sales for an accurate price and delivery.