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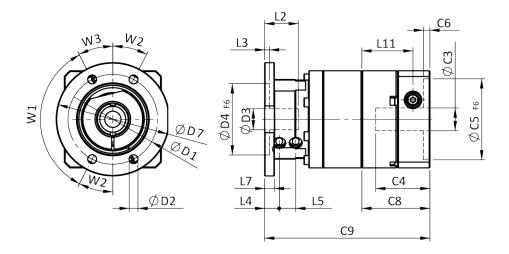
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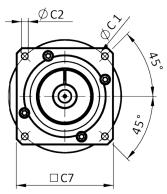
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PGW Single Stage Dimensions





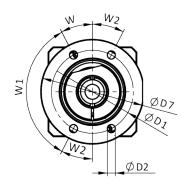
The PGW Single Stage hollow bore planetary reducer features an all steel alloy gear train and housing, low noise and vibration, and is maintenance-free under normal operating conditions.

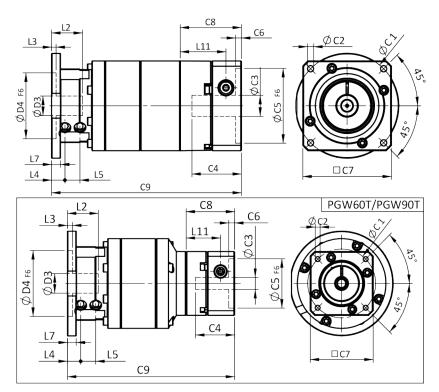
- Backlash as low as ≤ 6 arcmin
- High efficiency: ≥95%
- Low operating noise: ≤63 dB(A)
- Inline housing configuration
- One piece planet carrier and hollow bore output shaft
- Available in three sizes: 60, 90 and 115
- Hollow output bore sizes: $\leq 16 \text{ mm}$, $\leq 20 \text{ mm}$
- Single stage offers 6 ratios, 3:1 through 10:1
- Torque capacity range: starting at 28 Nm through 200 Nm
- Caged planet gear carrier for higher torque capacity
- Full needle roller bearings support precision planet gears
- Environmental protection: IP65
- Lubrication: lifetime synthetic lubricant

Dimensions	PGW60	PGW90	
D1	55.5 73		
D2	5.5	5.5	
D3 h6	16	20	
D4 g6	44	60	
D7	70	84	
L2	31	31	
L3	3.5	3.5	
L4	9	10.2	
L5	10.2	10.9	
L7	6	6	
L11	31.6	37.3	
W1	125°	90°	
W2	27.5°	22.5°	
W3	27.5°	67.5°	
C1 ²	70	90	
C2 ²	M5x0.8P	M6x1.0P	
C3 ²	≦14/≦19	${\leq}19/{\leq}24/{\leq}28$	
C4 ²	33.5	41	
C5 ² F6	50	70	
C6 ²	4	6	
C7 ²	60	90	
C8 ²	42.1	51.5	
C9 ²	102.2	126.5	



PGW Double Stage Dimensions



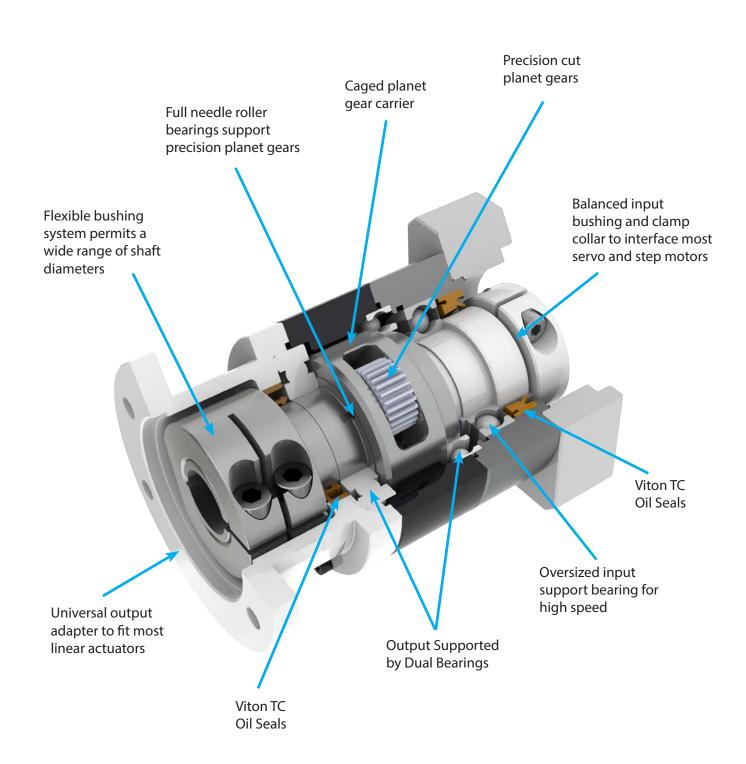


The PGW Double Stage hollow bore planetary reducer features an all steel alloy gear train and housing, low noise and vibration, and is maintenance-free under normal operating conditions.

- Backlash as low as ≤7 arcmin
- High efficiency: \geq 90%
- Low operating noise: $\leq 66 \text{ dB}(A)$
- Inline housing configuration
- One piece planet carrier and hollow bore output shaft
- Available in three sizes: 60, 90 and 115
- Hollow output bore sizes: $\leq 16 \text{ mm}$, $\leq 20 \text{ mm}$
- Single stage offers 6 ratios, 3:1 through 10:1
- Torque capacity range: starting at 28 Nm through 200 Nm
- Caged planet gear carrier for higher torque capacity
- Full needle roller bearings support precision planet gears
- Environmental protection: IP65
- Lubrication: lifetime synthetic lubricant

Dimensions	PGW60	PGW60T	PGW90	PGW90T	
D1	55	5.5	73		
D2	5.	.5	5.5		
D3 h6	1	6	20		
D4 g6	4	4	60		
D7	7	0	84		
L2	3	1	31		
L3	3	.5	3.5		
L4	9	Э	10.2		
L5	10).2	10.9		
L7	(5	6		
L11	31	23.4	37.3	31	
W1	12	.5°	90°		
W2	27	.5°	22.5°		
W3	27	.5°	67.5°		
C1 ²	70	46	90	46	
C2 ²	M5x0.8P	M4x0.7P	M6x1.0P	M5x0.8P	
C3 ²	≤14/≤19	≦8 /≦11	$\leq 19/\leq 24/\leq 28$	$\leq 14/ \leq 19$	
C4 ²	33.5	26.5	41	33.5	
C5 ² F6	50	30	70	50	
C6 ²	4	4	6	4	
C7 ²	60	42.6	90	60	
C8 ²	41.5	32.9	51.5	41.5	
C9 ²	128.6	113.3	160.3	145.8	

PGW Features





PGW Specifications

Spec	fications		Stage	Ratio	PGW-60	PGW-90	PGW-115	
				3	28	85	200	
		1	4	32	80	215		
			5	35	95	215		
		1	7	28	85	200		
			9	23	75	195		
			10	21	65	180		
		Stage	Ratio	PGW-60/PGW-60T	PGW-90/PGW-90T	PGW-115T		
		2	15	35/24	95/68	168		
			20	35/31	95/95	215		
			25	35/30	95/95	215		
			35	35/28	95/95	215		
			45	35/27	95/92	215		
			2	50	35/27	95/82	205	
Nominal Output T	orquoTau	N • m		70	28/28	85/85	200	
Nominal Output I	orque i 2N							
			90	23/23	75/75	195		
				100	21/21	65/65	180	
			Stage	Ratio	PGW-60T	PGW-90T	PGW-115T	
				125	35	95	215	
				175	35	95	215	
				225	35	95	215	
				245	35	95	215	
			3	315	35	95	215	
			5	405	35	95	215	
				567	28	85	200	
				729	23	75	195	
				1000	21	65	180	
Emergency Stop Torque T _{2NOT} N • m		1 2 2	$(2.5 times of Nominal Output Torque) *Max. Output Torque T_{2B}=60% of Emergency Stop Torque) 1.0.0$					
Nominal Input Sp	eed IIIIN	rpm	1,2,3	3-1000	4000	3000	2500	
Max. Input Spee	d n _{1max}	rpm	1,2,3	3-1000	6000	6000	5000	
			1	3-10	≦ 8	≦ 7	≦ 6	
Standard Backla	ash P2	arcmin	2	15-100	≤ 10	≤ 9	≦ 8	
			3	125~1000	 ≤ 12	 ≤12	 ≤12	
Operating Te	mp	°C	1,2,3	3-1000	= ++	-10°C ~ +90°C	= ++	
Service Li			1,2,3	3-1000	20,000 (3			
Service Li	ie	hr			20,000 (.	00 (10,000 Continuous operation)		
			1	3-10		≥ 95%		
Efficiency		%	2	15-100		≧ 90%		
			3	125~1000		≧ 85%		
			1	3-10	1.2	2.9	6.4	
Weight		kg	2	15-100	1.6/1.4	4.3/3.2	8.0	
			3	125~1000	1.8	4.6	9.4	
Mounting Pos	ition	-	1,2,3	3-1000	1.0	Any direction	5.4	
Noise Level		- dBA/1m			62		<i>C</i> 7	
			1,2,3	3-1000	63	66	67	
Protection C		-	1,2,3	3-1000		IP 65		
Lubrication	1	-	1,2,3	3-1000		Synthetic Lubricant		
Stage	Rati	0		Ine	rtia (J1) PGW-60 (ψ14)	PGW-90 (ψ19)	DCW/ 115 (12)	
Stage	20203	0		unit			PGW-115 (ψ24	
1	3				0.23	0.77	2.30	
	4				0.21	0.67	1.92	
	5~10	5~10 Ratio Kg •			0.21	0.61	1.71	
Stage	Rati			Kg•cm²	PGW-60 (ψ14) PGW-60T (ψ8)	PGW-90 (ψ19) PGW-90T (ψ14)	PGW-115T (ψ19	
2	15			-	0.23/0.04	0.77/0.23	0.77	
2	Other ra	atios			0.21/0.03	0.61/0.21	0.61	
Stage Ratio		-		PGW-60T (ψ8)	PGW-90T (ψ14)	PGW-115T (ψ19		
				0.03	0.21	0.61		

* 2. Measured at 3000rpm with no load.
* The above figures/specifications are subject to change without prior notice.

The DieQua Advantage

DieQua Corporation has been a manufacturer and supplier of precision motion control components since 1980. We offer the widest range of servo gearhead and speed reducing solutions available from a single source. Featuring right angle and inline designs with multiple backlash precision levels, the largest number of ratios, and several mounting and output options, we have the drive that meets your needs.

Sales

DieQua has established a network of sales associates and high tech distributors, supported by our inside sales team, to provide personal service to our valued customers.





Customer Service

DieQua is dedicated to being your most valuable supplier. From technical support to on-time delivery, you can count on DieQua to be a reliable extension of your design team.

Engineering

DieQua has several decades of combined experience specifying rotary motion control components. This assures the proper identification and selection for your unique requirements.

Warehousing

DieQua maintains an extensive inventory of common gearheads and servo motor connection components to provide quick delivery of prototypes, small orders and spare parts.





Manufacturing

DieQua manufactures or assembles the majority of the products we provide. This adds valuable flexibility to provide reliable and cost effective on-time delivery of your production orders.

Special Designs

DieQua offers component dimension modifications or complete special designs. These capabilities compliment our philosophy of offering the best possible solution available.







Motion Components and Engineering Services

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