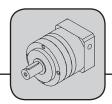
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Precision Planetary Reducer

Company Profile

- 1. IN 1960, Mr. Mao Cheng Chen, president of the company, and two other colleagues in the department of Mechanical Engineering of the Tainan Engineering College (predecessor of Cheng Kung University) established a company called "Chen Ta Machinery Works". It was named "Chen Ta" in remembrance of, and also giving acknowledgement to, their alma mater, Cheng Kung University (called Chen Ta in short) from where Mr. Chen and his colleagues had received their specialized mechanical education.
- 2. Chen Ta Machinery Works specialized in machining jobs such as grinding/re-building of the crankshafts of automobile and vessel engines, cylinder overhaul, and diesel engine adjustment. Back then, she was the best of her field in southern Taiwan. Due to the excellent technique and the cordial service, the company name was soon well known and the business became prosperous.
- 3. In 1971, to support a long-term operation, the company needed her own products, so the technical cooperation between CHENTA and Japan reducer manufacturer began. From then on, CHENTA started manufacturing her own brand, "CHENTA GEAR REDUCERS". Now the company has about 100 employees, and her products have been marketing to the world under the name of "CHENTA". The major markets are in Taiwan, Asia, and North America. In Taiwan, she remains at the top of the field and also established branch offices in America and in Shanghai (in China).
- 4. Since the beginning of the company, our conviction is to "Gather excellent human resource, and research and manufacture high quality products". Our product policy is targeting at "Guaranteed Quality", "On Time Delivery", "Competitive Prices", "Rational Production", and "International Marketing".
- 5. With more than 50 years of experience in mechanical manufacturing and honest operation, a fine culture has naturally grown inside the corporation. This spirit is the most precious resource of our company. The motto of our company is based on "INNOVATION", "HONESTY", "DILIGENCE", and "EFFICIENCY".
- 6. Influenced gradually under such fine culture, all employees in CHENTA work hard and take responsibility. They cooperate with each other and innovate actively. With their efforts, CHENTA keep developing and growing up to fight for the mutual benefits.
- 7. To reach our long term operation goal, based on the company's existing cultural resources, we will: have high expertise in the field; serve our customers with respect; constantly improve ourselves; manufacture high quality and affordable speed reducers for customers throughout the world, all so that we can grow together with our customers.

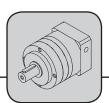
COMPANY PROFILE

Company Name: CHENTA PRECISION MACHINERY IND. INC.

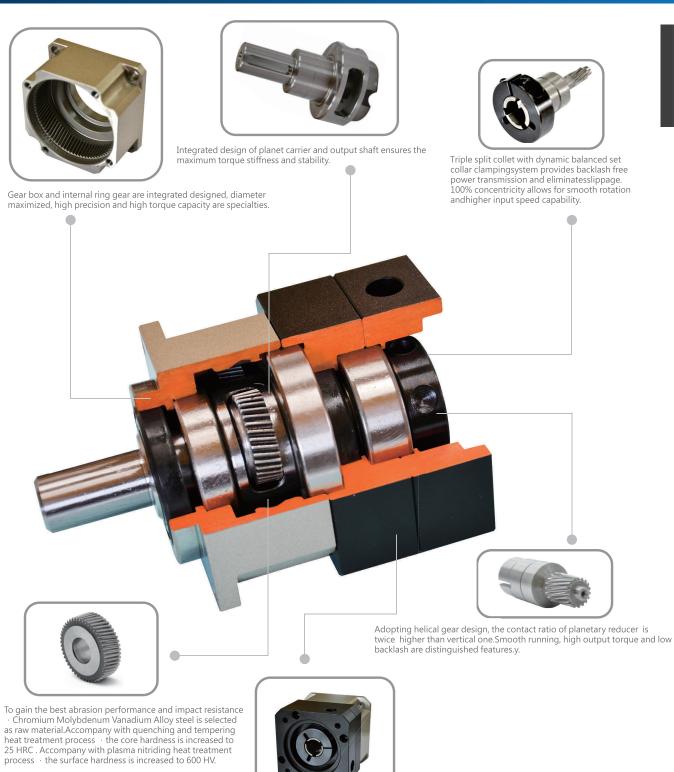
Established: 1971

Employee: 120 persons

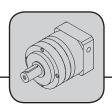
Plant Sizes: Jen Wu Plant: 7000m² Suzhou Plant: 30000M²



Product Features

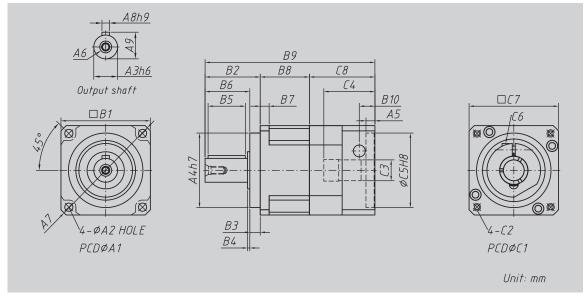


Motor adapter and bushing module are modularized designed \cdot which applied to types of servomotors.

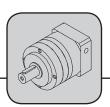


MODEL: SG SERIES



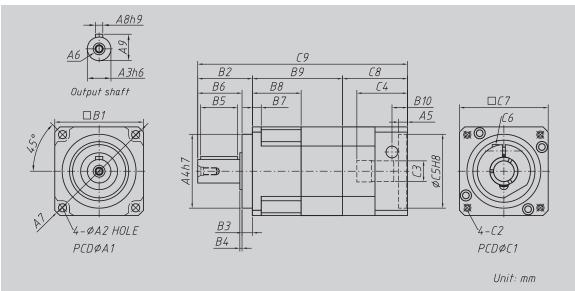


Model Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	1.5 2		2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
В8	28.3	33	43	54	72	87.5
В9	88.65	114	138	190	251	292
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24,28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100

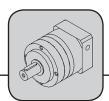


MODEL: SG SERIES



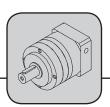


Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
B8	28.3	33	43	54	72	87.5
B9	54.3	61	83	102	123	177.5
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100
C9	114.65	142	178	238	312	382



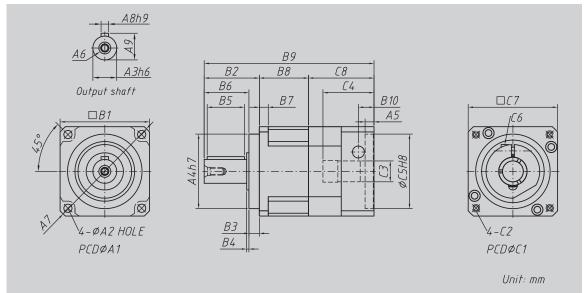
Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180				
			3	21	57	135	216	352	603				
			4	20	52	145	298	552	1065				
		L1	5	23	62	165	338	660	1215				
			6	21	57	155	318	610	1115				
			7	20 18	52	145	308	560 510	1115				
			8 9	18	47 42	125 105	268 238	460	1015 915				
			10	15	42	105	238	460	915				
			15	21	57	135	216	352	603				
	NI		20	20	52	145	298	552	1065				
Nominal Output Torque T	Nm		25	23	62	165	338	660	1215				
211			30	21	57	155	318	610	1115				
			35	20	52	145	308	560	1115				
		L2	40	18	47	125	268	510	1015				
			50	23	62	165	338	660	1215				
			60 70	21 20	57 52	155 145	318 308	610 560	1115 1115				
			80	18	47	125	268	510	1015				
								90	15	42	105	238	460
			100	15	42	105	238	460	915				
Max. Input Speed n ₁₈	rpm	L1/L2	3~100	10,000	10,000	8,000	8,000	6,000	6,000				
Nominal Input Speed n _{1N}	rpm	L1/L2	3~100	5,000	5,000	4,000	4,000	3,000	3,000				
Micro Backlash PS	arcmin	L1	3~10			≦							
WHEIO BUCKIUSH I S	arciiiii	L2	15~100	≦3									
Reduced Backlash P0	arcmin	L1	3~10		≦3								
		L2	15~100 3~10			≦ ≤							
Standard Backlash P1	arcmin	L1 L2	15~100			<u> </u>							
Maximum Torque Spike T _{2B}	Nm	L1/L2	3~100		1.8 Time	≡ s of nominal		iue					
Emergency Stop Torque T _{2NOT} ⁸	Nm	L1/L2	3~100			s of nominal							
	Nm/arcmin	L1/L2	3~100	3	7	14	25	50	145				
Max. Radial Load F _{2r8} c	N	L1/L2	3~100	780	1,530	3,250	6,700	9,400	14,500				
Max. Axial Load F _{2aB} c	N	L1/L2	3~100	390	765	1,625	3,350	4,700	7,250				
Service Life	hr	L1/L2	3~100	S5 Cycle Op	eration; > 2	, ,		peration ; >	10,000 hrs)				
Operating Temp	°C	L1/L2	3~100			-25°C							
Efficiency η	%	L1 3~10 ≤ 97 L2 15~100 ≤ 94											
Lubrication		L1/L2	3~100		Syn	thetic Lubric		9					
Noise			3~10	≦ 56	<u>≤</u> 60	<u>≤</u> 63	<u>≤</u> 63	≦ 65	<i>≦</i> 67				
		L2	15~100 3~100	<u>≤</u> 56	<u>≤</u> 60	≦ 63	≦ 63	≦ 65	<u>≤</u> 67				
Degree of Gearbox Protection						IP							
Mounting Position		L1/L2	3~100	٥٢	1.2		rection	155	20				
Weight	kg -	L1	3~10 15~100	0.5 0.8	1.2 1.8	3.5 5.2	7.5 11.2	15.5 22.5	38 48				
		L2	12~100	0.0	1.0	5.2	11.2	22.5	40				

Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	0.03	0.16	0.61	3.25	9.21	28.98
			4	0.03	0.14	0.48	2.74	7.54	23.67
			5	0.03	0.13	0.47	2.71	7.42	23.29
		L1	6	0.03	0.13	0.45	2.65	7.25	22.75
		LI	7	0.03	0.13	0.45	2.62	7.14	22.48
			8	0.03	0.13	0.44	2.58	7.07	22.59
			9	0.03	0.13	0.44	2.57	7.04	22.53
	kg.cm²		10	0.03	0.13	0.44	2.57	7.03	22.51
			15	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Inertia J ₁			20	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Thertia Ji			25	0.03	0.03	0.13	0.47	2.71	7.42
			30	0.03	0.03	0.13	0.47	2.71	7.42
			35	0.03	0.03	0.13	0.47	2.71	7.42
		L2	40	0.03	0.03	0.13	0.47	2.71	7.42
		LZ	50	0.03	0.03	0.13	0.44	2.57	7.03
			60	0.03	0.03	0.13	0.44	2.57	7.03
			70	0.03	0.03	0.13	0.44	2.57	7.03
			80	0.03	0.03	0.13	0.44	2.57	7.03
			90	0.03	0.03	0.13	0.44	2.57	7.03
			100	0.03	0.03	0.13	0.44	2.57	7.03

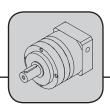


MODEL: SGS SERIES



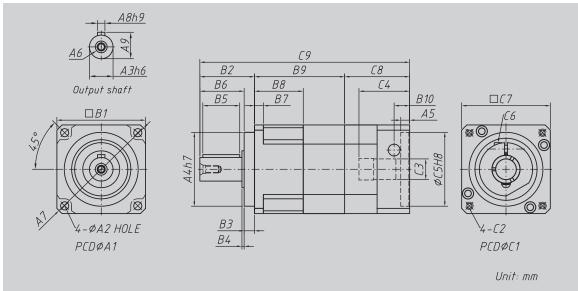


Model Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	1.5 2		2.5
B5	15	25	30	40	63	70
B6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
B8	28.3	33	43	54	72	87.5
В9	88.65	114	138	190	251	292
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100

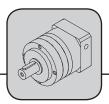


MODEL: SGS SERIES



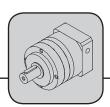


Model Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
В8	28.3	33	43	54	72	87.5
В9	54.3	61	83	102	123	177.5
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24,28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100
C9	114.65	142	178	238	312	382



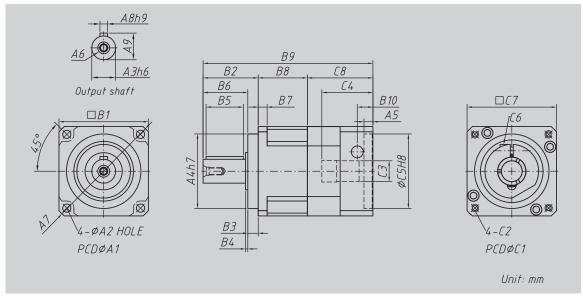
Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180		
			3	21	57	135	216	352	603		
			4	20	52	145	298	552	1065		
		L1	5	23	62	165	338	660	1215		
		LI	6	21	57	155	318	610	1115		
			7	20	52	145	308	560	1115		
			8	18	47	125	268	510	1015		
			9	15	42	105	238	460	915		
			10	15	42	105	238	460	915		
			15	21	57	135	216	352	603		
			20	20	52	145	298	552	1065		
Nominal Output Torque T _{2N}	Nm		25	23	62	165	338	660	1215		
			30	21	57	155	318	610	1115		
			35	20	52	145	308	560	1115		
			40	18	47	125	268	510	1015		
		L2	50	23	62	165	338	660	1215		
			60	21	57	155	318	610	1115		
			70	20	52	145	308	560	1115		
			80	18	47	125	268	510	1015		
			90	15	42	105	238	460	915		
			100	15	42	105	238	460	915		
Max. Input Speed n ₁₈	rpm	L1/L2	3~100	10,000	10,000	8,000	8,000	6,000	6,000		
Nominal Input Speedn _{1N}		L1/L2	3~100	5,000	5,000	4,000	4,000	3,000	3,000		
	rpm	L1/L2	3~10	3,000	3,000	1,000		3,000	3,000		
Micro Backlash PS	arcmin	L2	15~100			= ≤					
		L2 L1	3~10	= 3 ≤3							
Reduced Backlash P0	arcmin	L1	15~100	≤5 ≤5							
		L2 L1	3~10	≥ 5 ≤ 5							
Standard Backlash P1	arcmin	12	15~100								
		LZ L1	3~100	<u>≤</u> 7							
Regular Backlash P2	arcmin		15~100	≦7 ≤9							
Maniana Tanana Caila T	Nm	L2	3~100		1 0 Tin	∈ nes of nomir		rauc			
Maximum Torque Spike T _{2B}	Nm	L1/L2	3~100			nes of nomir					
Emergency Stop Torque T2Not		L1/L2		2	7			_	1.45		
,	Nm/arcmin		3~100	3		14	25	50	145		
Max. Radial Load F _{2r8}	N N	L1/L2	3~100 3~100	610 320	1,400	4,100	9,200 5,820	14,000	18,000		
Max. Axial Load F _{2a8} c	IN	L1/L2	3~100	320	1,100	3,700	5,820	11,400	19,500		
Service Life [®]	hr	L1/L2	3~100	S5 Cycle Op	eration; > 2			peration ; >	10,000 hrs)		
Operating Temp	°C	L1/L2	3~100				~ 90°C				
Efficiency η	%	L1	3~10 15~100	≤ 97 0 ≤ 94							
Lubrication L1/L2			3~100		Svr	= nthetic Lubri		e			
	ID.	11	3~10	≤ 56	≤ 60	≤ 63	≤ 63	≤ 65	≤ 67		
Noise	dB	L2	15~100	≦ 56	<u>=</u> 60 ≤ 60	≦ 63	_ ≦ 63	≦ 65 ≦ 65	= 67 ≤ 67		
Degree of Gearbox Protection	IP	L1/L2	3~100			IP	65				
Mounting Position		L1/L2	3~100			Any di	rection				
Maiabt	lea	L1	3~10	0.5	1.2	3.5	7.5	15.5	38		
Weight	kg	L2	15~100	0.8	1.8	5.2	11.2	22.5	48		

Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	0.03	0.16	0.61	3.25	9.21	28.98
			4	0.03	0.14	0.48	2.74	7.54	23.67
			5	0.03	0.13	0.47	2.71	7.42	23.29
		L1	6	0.03	0.13	0.45	2.65	7.25	22.75
		LI	7	0.03	0.13	0.45	2.62	7.14	22.48
			8	0.03	0.13	0.44	2.58	7.07	22.59
			9	0.03	0.13	0.44	2.57	7.04	22.53
			10	0.03	0.13	0.44	2.57	7.03	22.51
	kg.cm²		15	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Inertia J			20	0.03	0.03	0.13	0.47	2.71	7.42
iviass ivioliterits of friertia 3 1	kg.cm		25	0.03	0.03	0.13	0.47	2.71	7.42
			30	0.03	0.03	0.13	0.47	2.71	7.42
			35	0.03	0.03	0.13	0.47	2.71	7.42
		L2	40	0.03	0.03	0.13	0.47	2.71	7.42
		LZ	50	0.03	0.03	0.13	0.44	2.57	7.03
			60	0.03	0.03	0.13	0.44	2.57	7.03
			70	0.03	0.03	0.13	0.44	2.57	7.03
			80	0.03	0.03	0.13	0.44	2.57	7.03
			90	0.03	0.03	0.13	0.44	2.57	7.03
			100	0.03	0.03	0.13	0.44	2.57	7.03

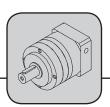


MODEL: SGL SERIES



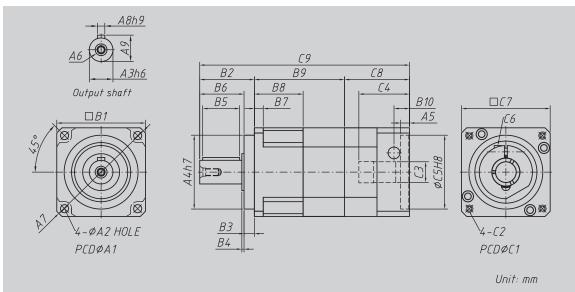


Model Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
В8	28.3	33	43	54	72	87.5
В9	88.65	114	138	190	251	292
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24,28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100

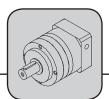


MODEL: SGL SERIES



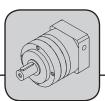


Code	42	60	90	115	142	180
A1	50	70	100	130	165	215
A2	3.5	5.5	6.5	8.5	10.5	13.5
A3	13	16	22	32	40	55
A4	35	50	80	110	130	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	56	80	116	148	185	240
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	42.6	60	90	115	142	180
B2	25.8	37	48	65	97	104.5
В3	5.5	7	10	12	15	20
B4	1.6	1.5	1.5	2	3	2.5
B5	15	25	30	40	63	70
В6	20.5	30	38	53	82	84.5
В7	4	6	8	10	12	16
B8	28.3	33	43	54	72	87.5
B9	54.3	61	83	102	123	177.5
B10	11	13.5	14	15	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.35	44	47	71	82	100
C9	114.65	142	178	238	312	382



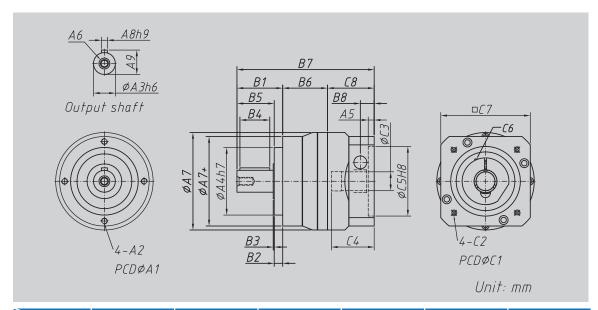
Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	21	57	135	216	352	603
			4	20	52	145	298	552	1065
		L1	5	23	62	165	338	660	1215
			6	21	57	155	318	610	1115
			7	20	52	145	308	560	1115
			8	18	47	125	268	510	1015
			9	15	42	105	238	460	915
			10	15	42	105	238	460	915
			15	21	57	135	216	352	603
Nominal Output Torque T _{2N}	Nm		20	20	52	145	298	552	1065
			25	23	62	165	338	660	1215
			30	21	57	155	318	610	1115
			35	20	52	145	308	560	1115
		L2	40	18	47	125	268	510	1015
			50	23	62	165	338	660	1215
			60	21	57	155	318	610	1115
			70	20	52	145	308	560	1115
			80	18	47	125	268	510	1015
			90	15	42	105	238	460	915
			100	15	42	105	238	460	915
Max. Input Speed n ₁₈	rpm	L1/L2	3~100	10,000	10,000	8,000	8,000	6,000	6,000
Nominal Input Speed n _{1N}	rpm	L1/L2	3~100	5,000	5,000	4,000	4,000	3,000	3,000
Regular BacklashP2	arcmin	L1		$3 \sim 10$ ≤ 8 12					
_	Nm	L2	15~100 3~100		1 O T	≧ imes of nom		+0.401.10	
Maximum Torque Spike T ₂₈	Nm	L1/L2	3~100			mes of nomi			
Emergency Stop Torque T2NOT® Torsional Rigidity	Nm/arcmin	L1/L2	3~100	3	7	14	25	50	145
Max. Radial Load F _{2/8}	N	L1/L2	3~100	780	1,530	3,250	6,700	9,400	14,500
Max. Axial Load F _{2aB} c	N	L1/L2 L1/L2	3~100	390	765	1,625	3,350	4,700	7,250
Service Life Service Life	hr	L1/L2						peration; >	
Operating Temp	°C	L1/L2	3~100	<i>y</i> 1	<u> </u>	-25°C		<u>'</u>	
, , ,		Ĺ1	3~10			≤!	97		
Efficiency η	%	L2	15~100			_ ≦!	94		
Lubrication		L1/L2	3~100			Synthetic Lub	orication Gre	ease	
Noico	dB -	L1	3~10	≤ 56	≦ 60	<u>≤</u> 63	<u>≤</u> 63	≦ 65	≦ 67
Noise		L2	15~100	≦ 56	≦ 60	<i>≦</i> 63	<u>≤</u> 63	≦ 65	≦ 67
Degree of Gearbox Protection	IP	L1/L2	3~100			IP			
Mounting Position		L1/L2	3~100				direction		
Weight	kg	L1	3~10	0.5	1.2	3.5	7.5	15.5	38
vveigiit	kg	L2	15~100	0.8	1.8	5.2	11.2	22.5	48

Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	0.03	0.16	0.61	3.25	9.21	28.98
			4	0.03	0.14	0.48	2.74	7.54	23.67
			5	0.03	0.13	0.47	2.71	7.42	23.29
		L1	6	0.03	0.13	0.45	2.65	7.25	22.75
		LI	7	0.03	0.13	0.45	2.62	7.14	22.48
			8	0.03	0.13	0.44	2.58	7.07	22.59
			9	0.03	0.13	0.44	2.57	7.04	22.53
			10	0.03	0.13	0.44	2.57	7.03	22.51
	kg.cm²		15	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Inertia J			20	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of frierda 3 1			25	0.03	0.03	0.13	0.47	2.71	7.42
			30	0.03	0.03	0.13	0.47	2.71	7.42
			35	0.03	0.03	0.13	0.47	2.71	7.42
		L2	40	0.03	0.03	0.13	0.47	2.71	7.42
		LZ	50	0.03	0.03	0.13	0.44	2.57	7.03
			60	0.03	0.03	0.13	0.44	2.57	7.03
			70	0.03	0.03	0.13	0.44	2.57	7.03
			80	0.03	0.03	0.13	0.44	2.57	7.03
			90	0.03	0.03	0.13	0.44	2.57	7.03
			100	0.03	0.03	0.13	0.44	2.57	7.03

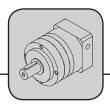


MODEL: SE SERIES

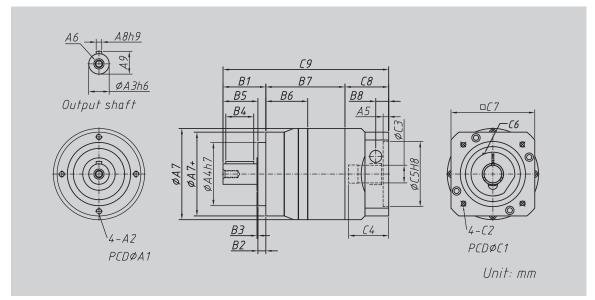




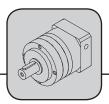
Model Code	42	60	90	115	142	180
A1	44	62	80	108	140	184
A2	M4 X P0.7	M5 x P0.8	M6 x P1.0	M6 x P1.0	M10 x P1.25	M12 x P1.75
A3	13	16	22	32	40	55
A4	35	52	68	90	120	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	59	70	98	125	156	212
A7+	50	70	90	120	156	212
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	26	36.5	46	70	97	104.5
B2	5.5	6.5	8.5	17	15	20
В3	1.6	1.5	1	2	3	2.5
B4	15	25	30	40	63	70
B5	20.5	30	37.5	53	82	84.5
В6	28.3	33.5	45	49	72	87.5
B7	114.8	114	138	190	251	283
B8	11	10.5	14	30	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34.1	43	67.5	68.1	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.5	44	47	71	82	91



MODEL: SE SERIES

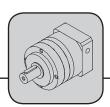


Model Code	42	60	90	115	142	180
A1	44	62	80	108	140	184
A2	M4 X P0.7	M5 x P0.8	M6 x P1.0	M6 x P1.0	M10 x P1.25	M12 x P1.75
A3	13	16	22	32	40	55
A4	35	52	68	90	120	160
A5	6	6	7.5	22.5	11	12
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0	M20 x P2.5
A7	59	70	98	125	156	212
A7+	50	70	90	120	156	212
A8	5	5	6	10	12	16
A9	15	18	24.5	35	43	60
B1	26	36.5	46	70	97	104.5
B2	5.5	6.5	8.5	17	15	20
В3	1.6	1.5	1	2	3	2.5
B4	15	25	30	40	63	70
B5	20.5	30	37.5	53	82	84.5
В6	28.3	33.5	45	49	72	87.5
В7	54.3	61.5	85	97	133	177.5
В8	11	10.5	14	30	23	27.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24,28	35 , 42	42
C4	26	34.1	43	67.5	68.1	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	34.5	44	47	71	82	91
C9	114.8	142	178	238	312	373



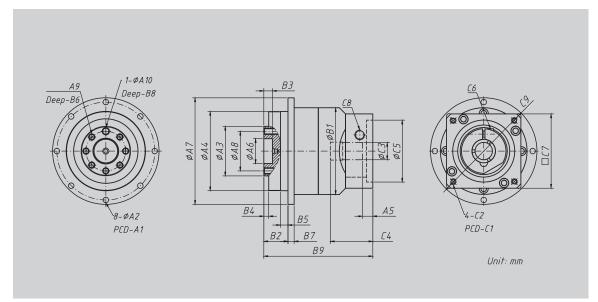
Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	21	57	135	216	352	603
			4	20	52	145	298	552	1065
		L1	5	23	62	165	338	660	1215
		LI	6	21	57	155	318	610	1115
			7	20	52	145	308	560	1115
			8	18	47	125	268	510	1015
			9	15	42	105	238	460	915
			10	15	42	105	238	460	915
			15	21	57	135	216	352	603
Nominal Output Torque T _{2N}	Nm		20	20	52	145	298	552	1065
Normal Sutput Torque 12N	INIII		25	23	62	165	338	660	1215
			30	21	57	155	318	610	1115
			35	20	52	145	308	560	1115
		L2	40	18	47	125	268	510	1015
		LZ	50	23	62	165	338	660	1215
			60	21	57	155	318	610	1115
			70	20	52	145	308	560	1115
			80	18	47	125	268	510	1015
			90	15	42	105	238	460	915
			100	15	42	105	238	460	915
Max. Input Speed n ₁₈	rpm	L1/L2	3~100	10,000	10,000	8,000	8,000	6,000	6,000
Nominal Input Speed n _{1N}	rpm	L1/L2	3~100	5,000	5,000	4,000	4,000	3,000	3,000
Regular Backlash P2	arcmin	L1	3~10				8		
J		L2	15~100				12		
Maximum Torque SpikeT ₂₈	Nm	L1/L2	3~100				inal output t		
Emergency Stop Torque T2Not	Nm	L1/L2	3~100			mes of nomi	nal output to		
Torsional Rigidity	Nm/arcmin	L1/L2	3~100	3	7	14	25	50	145
Max. Radial Load F _{2r8} c	N	L1/L2	3~100	780	1,530	3,250	6,700	9,400	14,500
Max. Axial Load F _{2aB} ^c	N	L1/L2	3~100	390	765	1,625	3,350	4,700	7,250
Service Life ^⁰	hr	L1/L2	3~100	S5 Cycle Op	eration ; > 2	20,000 (S1 C	ontinuous O	peration ; >	10,000 hrs)
Operating Temp	°C	L1/L2	3~100			-25°C	~ 90°C		
	٠,	L1	3~10			≦	97		
Efficiency η	%	L2	15~100			≦ '	94		
Lubrication		L1/L2	3~100		S	Synthetic Lub	orication Gre	ase	
Noise	dB	L1	3~10	≦ 56	<i>≦</i> 60	<u>≤</u> 63	<i>≦</i> 63	≦ 65	<i>≦</i> 67
Noise		L2	15~100	<u>≤</u> 56	<i>≦</i> 60	<i>≦</i> 63	<i>≦</i> 63	<u>≤</u> 65	<u>≤</u> 67
Degree of Gearbox Protection									
Mounting Position		L1/L2	3~100			Any d	irection		
Weight	ka	L1	3~10	0.6	1.4	3.3	6.9	13	31
vveignt	kg -	L2	15~100	0.9	1.6	4.7	8.7	17	35

Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			3	0.03	0.16	0.61	3.25	9.21	28.98
			4	0.03	0.14	0.48	2.74	7.54	23.67
			5	0.03	0.13	0.47	2.71	7.42	23.29
		L1	6	0.03	0.13	0.45	2.65	7.25	22.75
		LI	7	0.03	0.13	0.45	2.62	7.14	22.48
			8	0.03	0.13	0.44	2.58	7.07	22.59
			9	0.03	0.13	0.44	2.57	7.04	22.53
			10	0.03	0.13	0.44	2.57	7.03	22.51
	kg.cm²		15	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Inertia J			20	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of frierda 7 1			25	0.03	0.03	0.13	0.47	2.71	7.42
			30	0.03	0.03	0.13	0.47	2.71	7.42
			35	0.03	0.03	0.13	0.47	2.71	7.42
		L2	40	0.03	0.03	0.13	0.47	2.71	7.42
		LZ	50	0.03	0.03	0.13	0.44	2.57	7.03
			60	0.03	0.03	0.13	0.44	2.57	7.03
			70	0.03	0.03	0.13	0.44	2.57	7.03
			80	0.03	0.03	0.13	0.44	2.57	7.03
			90	0.03	0.03	0.13	0.44	2.57	7.03
			100	0.03	0.03	0.13	0.44	2.57	7.03

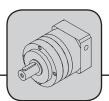


MODEL: SD SERIES

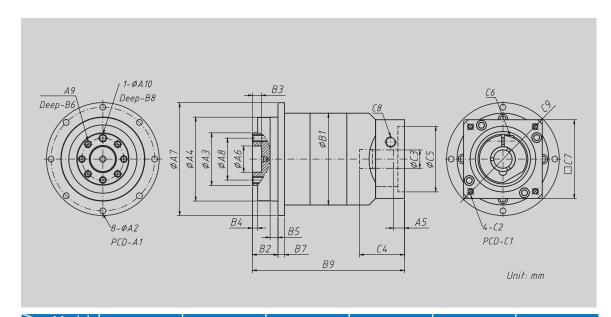




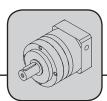
Model	47	64	90	110	140	200
A1	67	79	109	135	168	233
A2	3.4	4.5	5.5	5.5	6.6	12-9.0
A3	28	40	63	80	100	160
A4	47	64	90	110	140	200
A5	6	6	7.5	22.5	11	12
A6	12	20	31.5	40	50	80
A7	72	86	118	146	179	248
A8	20	32	50	63	80	125
A9	4-M3 x P0.5	7-M5 x P0.8	7-M6x P1.0	11-M6 x P1.0	11-M8 x P1.25	11-M10 x P1.5
A10	3	5	6	6	8	10
B1	59	70	98	125	156	212
B2	19.5	19.5	30	29	44	50
В3	5	7	12	12	12	16
B4	3	4	6	12	6	8
B5	5	6	10	10	15	15
В6	6.5	13	18	18	24	24
B7	4	5	7	8	10	12
B8	4	7	8	10	10	10
B9	71.3	88	106	149	175	228.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	M8 x P1.25	M8 x P1.25	M12 x P1.75	M16 x P2.0	M16 x P2.0	M16 x P2.0
C9	Ø 56	Ø 80	Ø 116	Ø 160	Ø 189	Ø 240



MODEL: SD SERIES

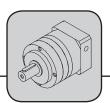


Model	47	64	90	110	140	200
A1	67	79	109	135	168	233
A2	3.4	4.5	5.5	5.5	6.6	12-9.0
A3	28	40	63	80	100	160
A4	47	64	90	110	140	200
A5	6	6	7.5	22.5	11	12
A6	12	20	31.5	40	50	80
A7	72	86	118	146	179	248
A8	20	32	50	63	80	125
A9	4-M3 x P0.5	7-M5 x P0.8	7-M6x P1.0	11-M6 x P1.0	11-M8 x P1.25	11-M10 x P1.5
A10	3	5	6	6	8	10
B1	59	70	98	125	156	212
B2	19.5	19.5	30	29	44	50
В3	5	7	12	12	12	16
B4	3	4	6	12	6	8
B5	5	6	10	10	15	15
В6	6.5	13	18	18	24	24
B7	4	5	7	8	10	12
В8	4	7	8	10	10	10
B9	97.3	116	146	197	236	318.5
C1	46	70	90	145	165	200
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C3	8	14,19	19,24	24 , 28	35 , 42	42
C4	26	34	43	67.5	68	72.5
C5	30	50	70	110	130	114.3
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75
C7	42.6	60	90	130	142	180
C8	M8 x P1.25	M8 x P1.25	M12 x P1.75	M16 x P2.0	M16 x P2.0	M16 x P2.0
C9	Ø 56	Ø 80	Ø 116	Ø 160	Ø 189	Ø 240



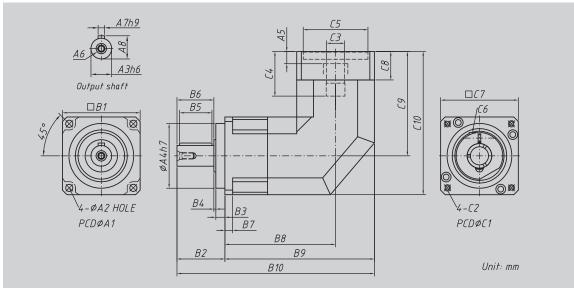
Model NO.	Unit	Stage	Ratio	47	64	90	110	140	200	
			4	20	50	135	278	570	1115	
			5	23	62	165	338	660	1215	
		L1	7	20	52	145	308	560	1115	
			10	15	42	105	238	460	915	
			20	20	50	135	278	570	1115	
Nominal Output Torque T _{2N}	Nm		25	23	62	165	338	660	1215	
			35	20	52	145	308	560	1115	
		L2	40	20	50	135	278	570	1115	
			50	23	62	165	338	660	1215	
			70	20	52	145	308	560	1115	
M 7 (C 1)			100	15	42	105	238	460	915	
Max. Input Speed n ₁₈	rpm	L1/L2	4~100	10,000	10,000	8,000	8,000	6,000	6,000	
Nominal Input Speedn _{1N}	rpm	L1/L2	4~100	5,000	5,000	4,000	4,000	3,000	3,000	
Micro Backlash PS $\begin{array}{c c} L1 & 4 \sim 10 & \leq 1 \\ \hline 12 & 20 \sim 100 & \leq 3 \end{array}$										
		L2	20~100							
Reduced Backlash P0	arcmin	L1	4~10			≦				
		L2	20~100	≦5 ≤5						
Standard Backlash P1	arcmin	L1	4~10							
	Nima	L2	20~100	≦7						
Maximum Torque Spike T _{2B}	Nm	L1/L2	4~100 4~100		1.8 Times of nominal output torque 3 Times of nominal output torque					
Emergency Stop Torque T2Not	Nm Nm (a ramain	L1/L2	4~100	7					440	
	Nm/arcmin	L1/L2	4~100	7 43	13 125	31 235	82 430	151	440	
Max. Bending moment M _{2KB}	N N	L1/L2	4~100	990	1050			1,300	3,064	
Max. Axial Load F _{2aB} c	IN	L1/L2	4~100			2,850	2,990	10,590	16,660	
Service Life [®]	hr	L1/L2	4~100	S5 Cycle Op	eration; > 2			peration ; >	10,000 hrs)	
Operating Temp	°C	L1/L2	4~100			-25°C				
Efficiency η	%	L1 L2	4~10 20~100			≦' '≤'				
Lubrication		L1/L2	4~100		Syr	nthetic Lubri		Α.		
		11	4~10	≤ 56	≤ 58	≤ 63	≤ 60	≤ 65	≤ 67	
Noise	dB -	L2	20~100	≤ 56	≤ 58	≦ 63 ≤ 63	≦ 60 ≤ 60	≦ 65 ≤ 65	≦ 67 ≤ 67	
Degree of Gearbox Protection	IP	L1/L2	4~100	= 30	= 30	IP		= 03	≡ 07	
Mounting Position		L1/L2	4~100				rection			
		L1	4~10	0.7	1.4	4.2	7.4	13.9	32.4	
Weight	kg -	12	20~100	1	1.9	4.8	9.4	16.7	40.2	
		LZ	_0 100	_		0		_ 5.,		

Model NO.	Unit	Stage	Ratio	42	60	90	115	142	180
			4	0.03	0.14	0.51	2.87	7.54	25.03
		L1	5	0.03	0.13	0.47	2.71	7.42	23.29
		LI	7	0.03	0.13	0.45	2.62	7.14	22.48
	kg.cm²		10	0.03	0.13	0.44	2.57	7.03	22.51
			20	0.03	0.03	0.13	0.47	2.71	7.42
Mass Moments of Inertia J_1			25	0.03	0.03	0.13	0.47	2.71	7.42
			35	0.03	0.03	0.13	0.47	2.71	7.42
		L2	40	0.03	0.03	0.13	0.44	2.57	7.03
			50	0.03	0.03	0.13	0.44	2.57	7.03
			70	0.03	0.03	0.13	0.44	2.57	7.03
			100	0.03	0.03	0.13	0.44	2.57	7.03

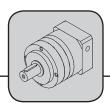


MODEL: SGR SERIES

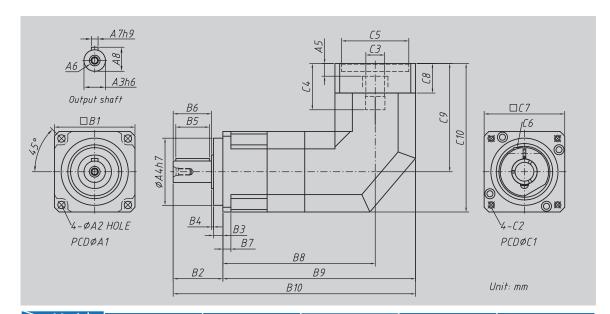




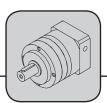
Code	42	60	90	115	142
A1	50	70	100	130	165
A2	3.5	5.5	6.5	8.5	10.5
A3	13	16	22	32	40
A4	35	50	80	110	130
A5	6.14	6.47	7.5	19.1	11
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0
A7	5	5	6	10	12
A8	15	18	24.5	35	43
B1	42.6	60	90	115	142
B2	26	37	48	65	97
В3	5.5	7	10	12	15
B4	1.6	1.5	1.5		3
B5	15	25	30	40	63
В6	18.9	28.5	36.5	51	79
В7	4	6	8	10	12
В8	76	85.5	122.1	140	178
В9	97.3	115.5	167.1	197.5	249
B10	123.3	152.5	215.1	262.5	346
C1	46	70	90	145	165
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C3	8	14,19	19,24	24 , 28	35 , 42
C4	26	34	53	78	74
C5	30	50	70	110	130
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C7	42.6	60	90	130	142
C8	20	22	25.5	45	35
C9	61	80.6	106.35	144.2	151
C10	82.3	110.6	151.35	201.7	222



MODEL: SGR SERIES

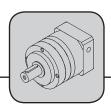


Model Code	42	60	90	115	142
A1	50	70	100	130	165
A2	3.5	5.5	6.5	8.5	10.5
A3	13	16	22	32	40
A4	35	50	80	110	130
A5	6	6	7.5	19	11
A6	M4 x P0.7	M5 x P0.8	M8 x P1.25	M12 x P1.75	M16 x P2.0
A7	5	5	6	10	12
A8	15	18	24.5	35	43
B1	42.6	60	90	115	142
B2	26	37	48	65	97
В3	5.5	7	10	12	15
B4	1.6	1.5	1.5	2	3
B5	15	25	30	40	63
В6	18.9	28.5	36.5	51	79
B7	4	6	8	10	12
B8	102	113.5	162.1	188	239
В9	123.3	143.5	207.1	245.5	310
B10	149.3	180.5	255.1	310.5	407
C1	46	70	90	145	165
C2	M4 x P0.7	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C3	8	14,19	19,24	24 , 28	35 , 42
C4	26	34	53	78	74
C5	30	50	70	110	130
C6	M3 x P0.5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C7	42.6	60	90	130	142
C8	20	22	25.5	45	35
C9	61	80.6	106.35	144.2	151
C10	82.3	110.6	151.35	201.7	222



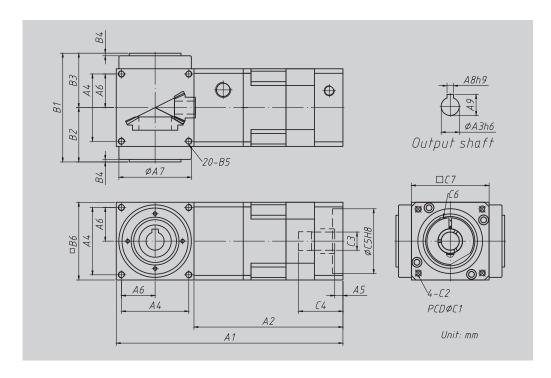
Model NO.	Unit	Stage	Ratio	42	60	90	115	142			
			3	10	38	95	203	352			
			4	13	50	125	268	530			
			5	16	62	155	333	660			
			6	19	57	155	318	610			
		L1	7	20	52	145	308	560			
		LI	8	18	47	125	268	510			
			9	15	42	105 155	238 333	460 660			
			10	15	62						
			14	15	44 42	145 105	308 238	560 460			
Nominal Output Torque T _{2N}	Nm -		20 25	15 16	62	155	333				
			30	21	57	155	318	660 610			
			35	20	52	145	308	560			
			40	18	47	125	268	510			
			50	15	62	105	238	660			
		L2	60	21	57	155	318	610			
			70	20	52	145	308	560			
			80	18	47	125	268	510			
			90	15	42	105	238	460			
			100	15	42	105	238	460			
Max. Input Speed n ₁₈	rpm	L1/L2	3~100	10,000	10,000	8,000	8,000	6,000			
Nominal Input Speedn IN	rpm	L1/L2	3~100	5,000	5,000	4,000	4,000	3,000			
Reduced Backlash P0	arcmin -	L1	3~10			≦2					
		L2	15~100			<u>≤</u> 4					
Standard Backlash P1	arcmin -	L1	3~10			<u>≤</u> 4					
		L2	15~100			≦7 ≤6					
regular backlash P2	arcmin -	L1 L2	3~10 15~100			≥ 6 ≤ 9					
maximum torque spike T ₂₈	Nm	L1/L2	3~100		1 & Times	of nominal ou	tnut torque				
Emergency Stop Torque T _{2NOT}		L1/L2 L1/L2	3~100			of nominal out					
Torsional Rigidity	Nm/arcmin	L1/L2	3~100	3	7	14	25	50			
Max. Radial Load F _{2r8} ^c	N	L1/L2	3~100	780	1,530	3,250	6,700	9.400			
Max. Axial Load F _{2a8} c	N	L1/L2	3~100	390	765	1,625	3,350	4,700			
Service Life [®]	hr	L1/L2	3~100	S5 Cycle Opera	ation ; > 20,000) (S1 Continuou	s Operation ;	> 10,000 hrs)			
Operating Temp	°C	L1/L2	3~100			-25°C ~ 90°C					
Efficiency η	%	L1 L2	3~10 15~100								
Lubrication		L1/L2	3~100		Synthet	tic Lubrication	Grease				
	JD.	L1	3~10	≤ 61	≤ 63	≤ 65	≤ 68	≤ 70			
Noise	dB -	L2	15~100	<u>≤</u> 61	<u>=</u> 63 ≤ 63	<u>=</u> 65 ≤ 65	<u>≤</u> 68	<u>≤</u> 70			
Degree of Gearbox Protection	IP	L1/L2	3~100			IP 65	_	_			
Mounting Position		L1/L2	3~100			Any direction					
Weight	kg -	L1	3~10	1	2.3	6.6	13.2	24.5			
vveignt	Ng	L2	15~100	1.2	3	8.2	14.2	27.5			

Model NO.	Unit	Stage	Ratio	42	60	90	115	142
		L1	3	0.09	0.35	2.25	6.84	23.4
			4	0.09	0.35	2.25	6.84	23.4
			5	0.09	0.35	2.25	6.84	23.4
			6	0.09	0.35	2.25	6.84	23.4
			7	0.09	0.35	2.25	6.84	23.4
			8	0.09	0.35	2.25	6.84	23.4
	kg.cm² ·		9	0.09	0.35	2.25	6.84	23.4
			10	0.09	0.35	2.25	6.84	23.4
			14	0.09	0.07	1.87	6.25	21.8
			20	0.09	0.07	1.87	6.25	21.8
Mass Moments of Inertia J_1		L2	25	0.09	0.09	0.35	2.25	6.84
			30	0.09	0.09	0.35	2.25	6.84
			35	0.09	0.09	0.35	2.25	6.84
			40	0.09	0.09	0.35	2.25	6.84
			50	0.09	0.09	0.35	2.25	6.84
			60	0.09	0.09	0.35	2.25	6.84
			70	0.09	0.09	0.35	2.25	6.84
			80	0.09	0.09	0.35	2.25	6.84
			90	0.09	0.09	0.35	2.25	6.84
			100	0.09	0.09	0.35	2.25	6.84

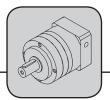


MODEL: ST SERIES

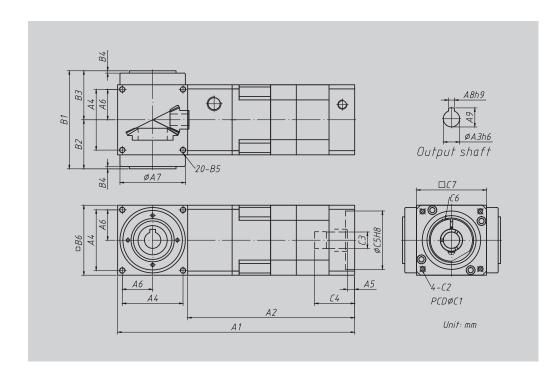




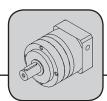
Model Code	60	90	115	142
A1	175.1	225.8	310.5	343
A2	115.1	135.8	195.5	193
A3	14	18	22	32
A4	52	72	88	110
A5	6	7.5	22.5	11.7
A6	26	36	44	55
A7	62	88	106	135
A8	5	6	8	10
A9	16.3	20.8	25.3	35.3
B1	84	118	144	194
B2	42	59	72	97
В3	42	59	72	97
B4	2	2	2	2
B5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
В6	60	90	115	150
C1	70	90	145	165
C2	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C3	14,19	19,24	24 , 28	35 , 42
C4	34	43	67.5	68.8
C5	50	70	110	130
C6	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C7	60	90	130	142



MODEL: ST SERIES



Model Code	60	90	115	142
A1	203.1	265.8	358.5	404
A2	143.1	175.8	243.5	254
A3	14	18	22	32
A4	52	72	88	110
A5	6	7.5	22.5	11.7
A6	26	36	44	55
A7	62	88	106	135
A8	5	6	8	10
A9	16.3	20.8	25.3	35.3
B1	84	118	144	194
В2	42	59	72	97
В3	42	59	72	97
В4	2	2	2	2
B5	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
В6	60	90	115	150
C1	70	90	145	165
C2	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C3	14,19	19,24	24 , 28	35 , 42
C4	34	43	67.5	68.8
C5	50	70	110	130
C6	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5
C7	60	90	130	142



Model NO.	Unit	Stage	Ratio	60	90	115	142		
	Nm	L1	3	25	78	150	360		
			4	25	78	150	360		
			5	25	78	150	360		
			10	24	68	150	330		
Nominal Output Torque T _{2N}			20	24	68	150	330		
Nominal Output lorque 1 _{2N}			15	25	78	150	360		
			25	25	78	150	360		
		L2	30	24	68	150	330		
			40	24	68	150	330		
			50	25	78	150	360		
Max. Input Speed n ₁₈	rpm	L1/L2	3~50	6,000	6,000	6,000	6,000		
Nominal Input Speedn 1N	rpm	L1/L2	1~50	3,000	3,000	3,000	3,000		
Reduced Backlash P0	arcmin	L1	1~50	<u>≤</u> 4					
Neduced Backlasii Fo		L2	1~50	≤ 6					
Standard Backlash P1	arcmin	L1	1~50	≦7					
Standard Backlasii i 1		L2	1~50	<u>≦</u> 9					
Regular Backlash P2	arcmin	L1	1~50	≦ 10					
Regular Backlasii i Z		L2	1~50	≦12					
Maximum Torque SpikeT _{2B}	Nm	L1/L2	1~50	1.5 Times of nominal output torque					
Emergency Stop Torque T _{2NOT}	Nm	L1/L2	1~50		3 Times of nomir	al output torque	9		
Max. Radial Load F _{2r8} ^c	N	L1/L2	1~50	600	1,000	2,000	3,000		
Max. Axial Load F _{2aB} c	N	L1/L2	1~50	300	500	1,000	1,500		
Service Life [®]	hr	L1/L2	1~50	S5 Cycle Operation; > 20,000 (S1 Continuous Operation; > 10,000 hrs)					
Operating Temp	°C	L1/L2	1~50	-25℃ ~ 90℃					
Efficiency n	%	L1	1~10	<i>≦</i> 94					
Efficiency η		L2	15~50	≦ 90					
Lubrication		L1/L2	1~50	Synthetic Lubrication Grease					
	dB	L1	1~10	<u>≤</u> 68	<u>≤</u> 73	≦ 74	<u>≤</u> 75		
Noise		L2	15~50	≦ 71	<u>≦</u> 76	<i>≦</i> 77	≦ 78		

Treatment of Internal							
Model NO.	Unit	Stage	Ratio	60	90	115	142
Moment of Inertia J	kg.cm²	L1	3	0.05	0.18	0.41	0.56
			4	0.05	0.18	0.41	0.56
			5	0.05	0.18	0.41	0.56
			10	0.05	0.18	0.41	0.56
			20	0.05	0.18	0.41	0.56
		L2	15	0.05	0.18	0.41	0.56
			25	0.05	0.18	0.41	0.56
			30	0.05	0.16	0.38	0.53
			40	0.05	0.16	0.38	0.53
			50	0.05	0.16	0.38	0.53