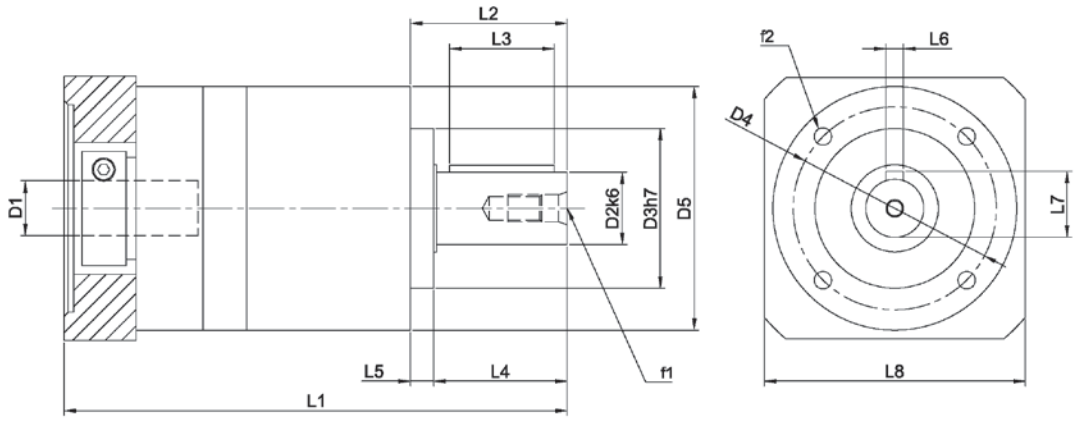
Stainless Steel Series - SSP-W

SSP Series		70	90	120
Stock Ratios		5,10		
All Ratios Available		1-stage: 3, 4, 5, 7, 10 2-stage: 12, 16, 20, 25, 35, 40, 50, 70, 100 For other ratios, consult GAM		
Nominal Output Torque (T_{2n})	Nm (lb-in)	3:1, 10:1, 100:1	14 (124)	40 (354)	100 (885)
		4:1, 5:1, 7:1	26 (230)	50 (443)	120 (1062)
		all other ratios	36 (319)	64 (566)	165 (1460)
Max Acceleration Output Torque (T_{2B})	Nm (lb-in)	3:1, 10:1, 100:1	25 (221)	60 (531)	150 (1328)
		4:1, 5:1, 7:1	40 (354)	80 (708)	180 (1593)
		all other ratios	55 (487)	135 (1195)	255 (2257)
Emergency Output Torque (T_{2not})	Nm (lb-in)	3:1, 10:1, 100:1	45 (398)	120 (1062)	300 (2655)
		4:1, 5:1, 7:1	70 (620)	150 (1328)	360 (3186)
		all other ratios	75 (664)	185 (1637)	480 (4248)
Nominal Input Speed (n_{1n})	RPM	-	3500	3000	2500
Max Speed (n_{1max})		-	6000	6000	5000
Standard Output Backlash (j)	arcmin	3:1 - 10:1	< 10	< 10	< 8
		12:1 - 100:1	< 15	< 14	< 12
Allowable Radial Load (F_{rad}) [1]	N (lbs)	-	910 (205)	1500 (338)	3000 (675)
Allowable Axial Load (F_{axial})	N (lbs)	-	500 (113)	1000 (225)	1500 (338)
Torsional Stiffness (C_{t21})	Nm/ arcmin (lb-in/ rcmin)	10:1, 100:1	1.3 (11.5)	3.4 (30.1)	8.3 (73.5)
		7:1, 70:1	1.7 (15)	4.8 (42.5)	13.6 (120.4)
		all other ratios	2.4 (21.2)	7.1 (62.8)	17.2 (152.2)
Weight (m)	kg (lbs)	1-stage	2 (4.4)	3.9 (8.6)	8.8 (19.4)
		2-stage	2.3 (5.1)	4.7 (10.4)	10.9 (24)
Noise Level (L_{PA})	dB(A)	-	< 64	< 66	< 68
Mass Moment of Inertia (J_1)	kg cm^2 (lb-in^2)	3:1	0.176 (0.06)	0.542 (0.184)	2.54 (0.864)
		4:1, 12:1, 16:1	0.173 (0.059)	0.473 (0.161)	1.86 (0.632)
		5:1, 7:1, 20:1, 25:1, 35:1	0.156 (0.053)	0.407 (0.138)	1.51 (0.513)
		all other ratios	0.137 (0.047)	0.328 (0.112)	1.07 (0.364)
Efficiency at Load		1-stage: 92% 2-stage: 90%			
Service Life		> 20,000 hours			
Lubrication		Food Grade Grease: Note 1. Meets FDA 21 CFR 178.3570 requirements Note 2. USDA H1 authorized (authorized for use in federally inspected meat and poultry plants)			
Protection Rating		IP 66			
Operating Temperature Range		-20°C to 90°C			

1) Load applied at center of output shaft @100 RPM

SSP-W



SSP Series		70		90		120	
		mm	(in)	mm	(in)	mm	(in)
D1 max standard	motor shaft diameter	14	(0.551)	19	(0.748)	24	(0.945)
D1 max available*	motor shaft diameter	16	(0.63)	24	(0.945)	32	(1.26)
D2 k6	output shaft diameter	16	(0.63)	22	(0.866)	32	(1.26)
D3 h7	pilot diameter	52	(2.047)	68	(2.677)	90	(3.543)
D4	bolt circle	62	(2.441)	80	(3.15)	108	(4.252)
D5	housing diameter	70	(2.756)	92	(3.622)	122	(4.803)
f1	shaft thread	M5x12		M6x16		M10x22	
f2	mounting holes	M6x12		M6x14		M8x18	
L1 1-STAGE**	gearbox total length	131	(5.157)	174	(6.85)	232	(9.134)
L1 2-STAGE**		153	(6.024)	207	(8.15)	271	(10.669)
L2	shaft length	36	(1.417)	46	(1.811)	70	(2.756)
L3	key length	25	(0.984)	30	(1.181)	50	(1.969)
L4	usable shaft length	28	(1.102)	36	(1.417)	58	(2.283)
L5	pilot height	7	(0.276)	9	(0.354)	11	(0.433)
L6	key width	5	(0.197)	6	(0.236)	8	(0.315)
L7	key height	18	(0.709)	24.600	(0.969)	34.8	(1.37)
L8**	adapter size	70	(2.756)	92	(3.622)	122	(4.803)

* for these larger motor shaft diameters, please contact GAM ** depending on the motor, value can vary
*** long motor shafts can be accommodated, but overall gearbox length will grow

Recommended Output Coupling (if necessary)			
all stainless bellows	KG-VA-80	KG-VA-220	KG-VA-350

TYPE CODES FOR SSP SERIES (SSP-W)

Example: SSP - W - 090 - 005 G - [115 - A01] - S111

Gearbox Series
Stainless Steel Planetary Series

Gearbox Style
W = Output Shaft

Gearbox Size
070, 090, 120

Ratio
3, 4, 5, 7, 10, 12, 16, 20, 25, 35, 40, 50, 70, 100

Options Available for This Product
G = Key on output DIN688

Motor Mount Kit
Assigned by GAM

Special Options
Assigned by GAM

Tolerances (mm)		
Size	k6	h7
Over 6	+0.010	0
Thru 10	+0.001	-0.015
Over 10	+0.012	0
Thru 18	+0.001	-0.018
Over 18	+0.015	0
Thru 30	+0.002	-0.021
Over 30	+0.018	0
Thru 50	+0.002	-0.025
Over 50	+0.021	0
Thru 80	+0.002	-0.030