



# Xcellent Planetary

## XP(XF) series



### ***Price Performer***

***Universal Installation***

***Full Protection IP65***

***Extremely Compact***

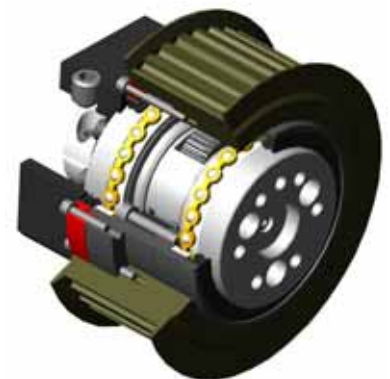
***High Tilting Rigidity***

***Extremely Silent***

***High Dynamics***

***Simple To Use***

***XP(XF)***



**XP(XF)** [Xcellent Planetary (XF) series ratings at a glance]

[Specifications]	[Symbol]	[Unit]	XP [XP ratio] <sup>7)</sup>		[Model]									
			XP(F)07A		XP(F)015		XP(F)045		XP(F)090					
			1 [1 st]	2 [2 st]	1 [1 st]	2 [2 st]	1 [1 st]	2 [2 st]	1 [1 st]	2 [2 st]				
[Rated output torque] (ED > 60%, > 20' / Maximum output torque when ED>60%, or load cycle duration > 20 minutes)	T <sub>2n</sub>	Nm	4	16, 20, 28	4	6.4	15	22	45	55	90	110		
			5	21, 25, 35	4.2	7.1	16	24	45	59	110	120		
			7	31, 43, 49	4.5	6	17	28	43	64	90	140		
			10	64, 91	-	-	14	16	35	40	80	90		
가 [Maximum acc./dec. torque] <sup>1)</sup>	T <sub>2B</sub>	Nm	4	16, 20, 28	8	10	28	44	88	110	180	220		
			5	21, 25, 35	8.4	12	32	48	90	118	210	240		
			7	31, 43, 49	8	10	28	50	86	120	160	280		
			10	64, 91	-	-	25	29	70	80	160	180		
( ) [Peak torque (Emergency stop)] <sup>2)</sup>	T <sub>2net</sub>	Nm	4	16, 20, 28	16	17	42	66	129	165	240	330		
			5	21, 25, 35	16	17	48	72	135	176	300	360		
			7	31, 43, 49	14	15	45	75	129	180	270	420		
			10	64, 91	-	-	36	42	102	120	180	270		
( ) [Rated (Cont.) input speed]	n <sub>1n</sub>	rpm	[All ratio]				3000		3000		3000		3000	
[Maximum input speed]	n <sub>1max</sub>	rpm	[All ratio]				6000		6000		5000		5000	
[Standard torsional play] XP	B	arcmin	1 (stage)	2 (stage)	16	20	12	15	10	14	10	14		
[Reduced torsional play] XP*					9	12	7	9	6	8	6	8		
[Selected torsional play] XP**					6	8	5	6	4	6	4	6		
[Torsional stiffness]	C <sub>t</sub>	Nm/arcmin	4	16, 20, 28	0.5		2.4		7.1		17.2			
			5	21, 25, 35	0.5		2.4		7.1		17.2			
			7	31, 43, 49	0.4		2.2		6		14			
			10	64, 91	-		2		5		10			
[Mass moment of inertia] <sup>3)</sup>	J <sub>i</sub>	kg·cm <sup>2</sup>	4	16	0.06	0.06	0.32	0.06	1.44	0.31	2.97	1.36		
			5	20, 21, 25, 31	0.06	0.06	0.31	0.06	1.36	0.31	2.68	1.36		
			7	28, 35, 43, 49, 64	0.06	0.06	0.3	0.06	1.30	0.3	2.48	1.30		
			10	91	-	-	0.3	-	1.27	0.3	2.39	1.27		
[Tilting rigidity]	M <sub>R</sub>	Nm/arcmin	[All ratio]				11		19		51		127	

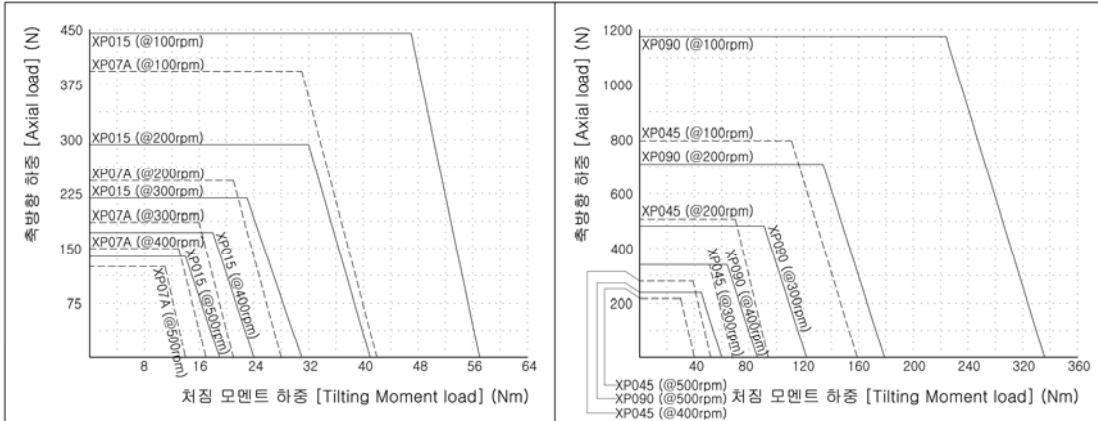
[Specifications]	[Symbol]	[Unit]	(rpm) [Average output speed]	[Model]			
				XP(F)07A	XP(F)015	XP(F)045	XP(F)090
[Tilting moment load] <sup>4)</sup>	M <sub>T</sub>	Nm	500	14	19	40	60
			400	17	24	52	86
			300	21	31	68	122
			200	28	41	94	179
			100	33	57	147	296
[Axial load] <sup>5)</sup>	F <sub>A</sub>	N	500	125	139	217	238
			400	150	172	280	340
			300	186	219	368	483
			200	243	293	508	709
			100	359	445	795	1175
[Radial load] <sup>6)</sup>	F <sub>R</sub>	N	500	565	644	1081	1325
			400	686	813	1405	1900
			300	848	1050	1837	2696
			200	1131	1389	2540	3955
			100	1333	1932	3972	6541
[Radial load distance]	r <sub>d</sub>	mm		24.75	29.5	37	45.25
[Weight] ( /with motor flange)	m	kg	1 (stage)   2 (stage)	0.8   1	1.5   1.8	3.5   3.8	7.6   8.4
[Operating noise] @n <sub>1n</sub> =3000rpm	O <sub>n</sub>	dB		< 68	< 66	< 68	< 70
[Efficiency with rated load]	η	%		> 92	> 94	> 93	> 93
[Lifetime]	L <sub>h</sub>	hr	L <sub>10</sub> > 10000 ( L <sub>50</sub> > 50000 )				
[Lubrication]	[Lifetime lubrication, Closed system]						
[Surface protection]	( ) [Anodized aluminum, except input & output]						
[Installation position]	( ) [Any, include variable orientation]						
[Operating temperature]	-10°C ~ +90°C ( -30°C~+90°C ) [-30°C~+90°C On request]						
[Output direction of rotation]	[The same as input]						
[Degree of protection]	IP65						

1) 1000 가 5% 가 0.3 가 . [At a maximum 1000cycle per hour, percentage of acc. & dec. time in one cycle less than 5%, and duration of the impulse less than 0.3 sec.]  
 2) XP 가 1000 . [Max 1000 times during XP series lifetime.]  
 3) . [Depends on applied motor shaft diameter.]  
 4) . ( ) [Maximum value without axial load. Refer main bearing load diagram.]  
 5) . ( ) [Maximum value at the center of output rotation, without tilting moment load. Refer main bearing load diagram.]  
 6) . ( ) [Maximum value at the radial load distance, without axial load. Refer each series dimensions.]  
 7) XF series 'XP 1 -1' . XF 2 . \* XP07A 2 , 1 10 XP015 , 2 91 XP045 가 . (4 XP ) [XF series ratio is 'XP 1 stage ratio-1'. Please contact SEJINI GB for 2 stage ratio applications of XF. \* is XP07A 2 stage ratio. 1 stage ratio 10 is available XP015 or bigger model. 2 stage ratio 91 is available XP045 or bigger model. Please refer page 4 XP ordering information.]



**XP(XF)**

**[XP(XF) series main bearing load diagram]**



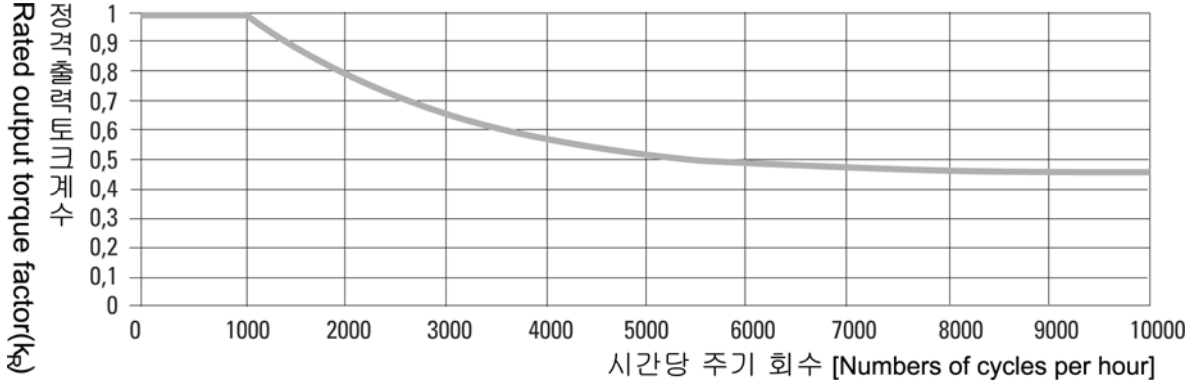
☞ XP(XF)

XP(XF)

[Please refer XP (XF) series main bearing load diagram, when axial and tilting loads are applied together on XP (XF) output flange.]

**XP(XF)**

**[XP(XF) series rated output torque factor diagram]**



☞

가 1000

XP(XF)

. [Please refer XP(XF)

series rated output torque diagram for application that numbers of cycles per hour are over 1000 times.]

( )

가 1800

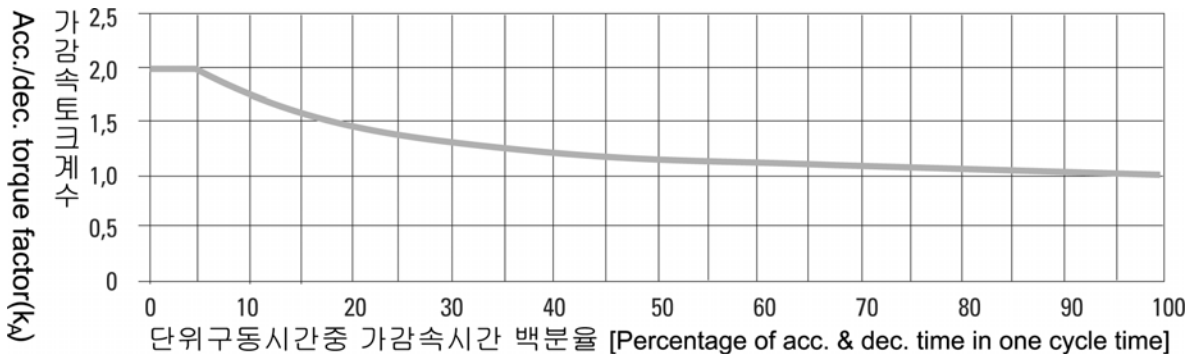
XP

0.8

. [(Ex.) If numbers of cycles per hour are 1800 times, then only approximately 0.8 times of each XP(XF) model rated output torque should be applied to satisfy lifetime.]

**XP(XF) 가**

**[XP(XF) series acc./dec. torque factor diagram]**



☞

가 1000

, 가 0.3

, 가

. [It shows max. acc./dec. torque as a numbers of times of each XP model rated output torque, under the condition of max. 1000 cycle per hour, percentage of acc. & dec. time in one cycle less than 5%, and duration of the impulse less than 0.3 sec.]

( )

1800

, 가

0.1 (0.1<0.3,

3600/1800=2

, 가

(0.1+0.1)/2=10% )

, 가

XP(XF)

1.4

(0.8X1.75=1.4).

가

0.3

. [(Ex.) If numbers of cycles per hour are 1800times, acc. time 0.1 sec, dec. time 0.1 sec (0.1<0.3, also 3600/1800=2sec, therefore, percentage of acc. & dec. time in one cycle time is (0.1+0.1)/2=10%), then max. acc./dec. torque is 1.4 times (0.8X1.75=1.4) of each XP(XF) model rated output torque. If acc. & dec. times is over 0.3 sec., then acc./dec. torque should not exceed its rated output torque.]

**Xcellent - Planetary [Xcellent - Planetary Ordering Information]**

**XP(XF) 000 - 000 - C2/S2 - XXXXXX**

**[Model name]:** XP( /Output flange output), XF( /Case output)

☉ XP(XF): [Standard], XP+(XF+) : [Reduced], XP++(XF++) : [Selected]

**[Model Number]:** ( × 10Nm) [rated output torque ( × 10Nm)]

**[Ratio]:**

[Model name]	1 [1 stage]	2 [2 stage]	[Model name]	1 [1 stage]	2 [2 stage]
XP07A	4, 5, 7	16, 20, 25, 28, 35, 49	XP045	4, 5, 7, 10	16, 21, 31, 43, 64, 91
XP015	4, 5, 7, 10	16, 21, 31, 43, 64	XP090	4, 5, 7, 10	16, 21, 31, 43, 64, 91

☉ XF series 'XP 1 -1' . XF 2 . [XF series ratio is 'XP 1 stage ratio-1'. Please contact SEJINiGB for 2 stage ratio applications of XF.]

**[Input style]:** C2- [Clamp input], S2- [Shaft input]

**XP(XF) [XP(XF) motor code]: [See below table]**

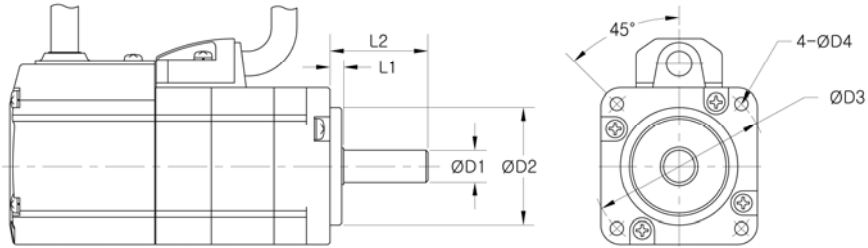
☉ XP S2 , XP(XF)

'NF'. [Blank for XP S2 type input, 'NF' for C2 type input w/o motor flange.]


☉ XF S2


. [Please contact SEJINiGB for XF S2 input style application.]

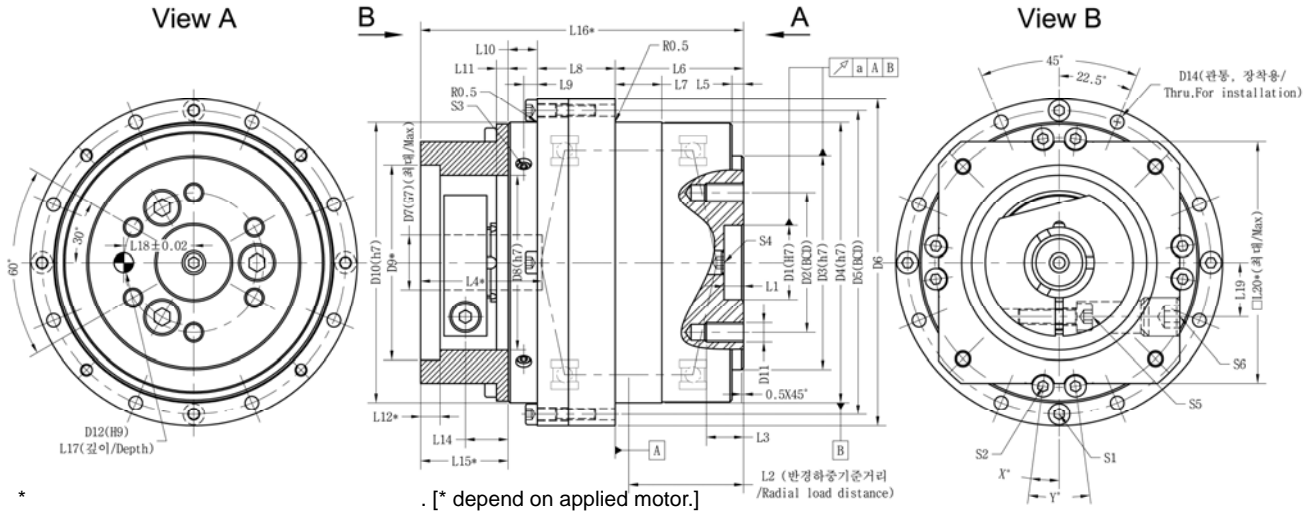
**XP(XF) series 가 [XP(XF) series Applied Motor Code]**



XP(F) 1 [1 stage]	[Model] 2 [2 stage]	[Dimensions] Motor Code	L1 (Max)	L2		D1	D2	D3	D4
				Min	Max				
XP(F)07A	XP015	A040PP	4.0	20	28	8	30	45	3.5(M3)
XP(F)07A	XP015	A040PM	4.0	20	28	8	30	46	4.5(M4)
{XP(F)07A}	{XP015}	A040PF	7.0	22	28	8	30	46	4.5(M4)
XP(F)015, XP(F)07A	XP015	A060PQ	5.0	20	28	8	50	70	4.5(M4)
XP(F)015, XP(F)07A	XP015	A060PU	5.0	20	28	8	50	70	5.5(M5)
XP(F)015, XP(F)07A	XP015, XP045	A060P2	5.0	20	30	11	50	70	4.5(M4)
XP(F)015, XP(F)07A	XP015, XP045	A060PP	5.0	20	30	14	50	70	4.5(M4)
XP(F)015, XP(F)07A	XP015, XP045	A060PM	5.0	20	30	14	50	70	5.5(M5)
{XF07A, XF015}, XP(F)045	{XP015}	A080P2	9.0	27	30	11	70	90	5.5(M5)
{XF07A, XF015}, XP(F)045	{XP015}, XP045	A080PQ	9.0	27	30	14	70	90	5.5(M5)
{XF07A, XF015}, XP(F)045	{XP015}, XP045	A080PU	9.0	27	30	14	70	90	6.6(M6)
XP(F)045	XP045, XP090	A080PY	9.0	30	40	16	70	90	6.6(M6)
XP(F)045	XP045, XP090	A080PP	9.0	30	40	19	70	90	5.5(M5)
XP(F)045	XP045, XP090	A080PM	9.0	30	40	19	70	90	6.6(M6)
{XP(F)045}	XP090	A090PP	9.0	40	55	19	80	100	6.6(M6)
XF045, XP(F)090	{XP045}, XP090	A100PG	9.0	30	40	16	95	115	9(M8)
{XF045}, XP(F)090	XP090	A100PP	9.0	40	55	19	95	115	9(M8)
XP(F)090	XP090	A100PM	9.0	40	58	24	95	115	9(M8)
XP(F)090	XP090	A120PY	9.0	40	58	16	110	145	9(M8)
XP(F)090	XP090	A120PS	9.0	40	58	19	110	145	9(M8)
XP(F)090	XP090	A120PP	9.0	40	58	22	110	145	9(M8)
XF090	-	A130PM	9.0	40	58	24	110	145	9(M8)
XF090	{XP090}	A130PP	9.0	40	58	22	110	145	9(M8)
XF090	{XP090}	A130PY	9.0	40	58	19	110	145	9(M8)

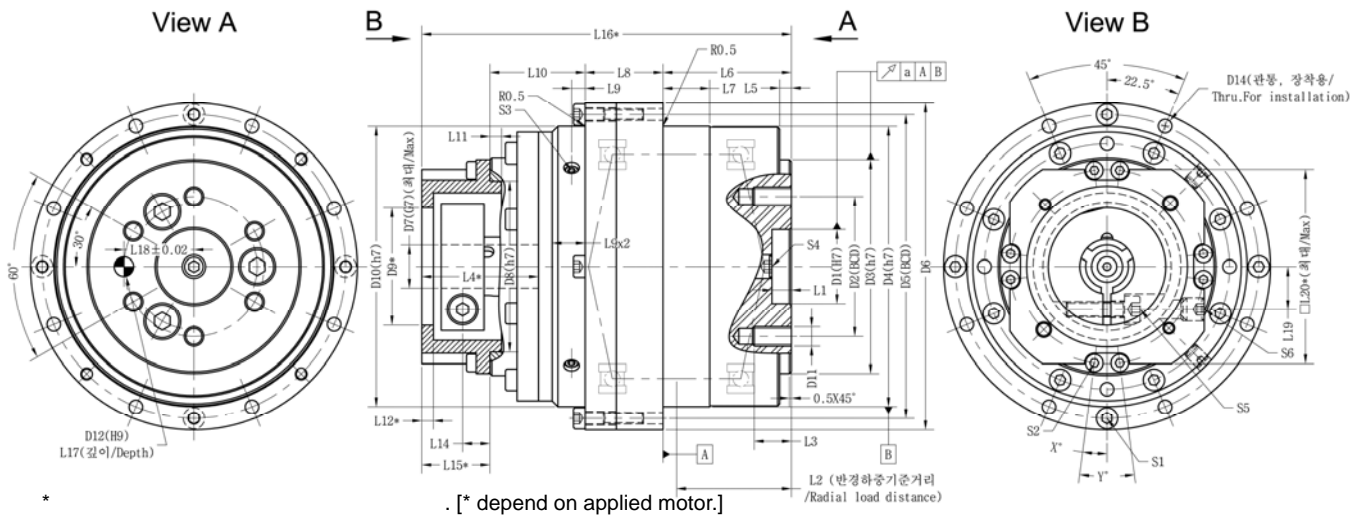
 가 XP(XF) , 가 . [Listed motor and XP(XF) combinations are only consider mechanical dimensions with smallest XP(XF), not actual available torque range.]

 ( 가 ) 가 , { } . [Installable motor size may be varied by installing conditions, such as additional adaptor. { } shows optional motor flange combinations.]



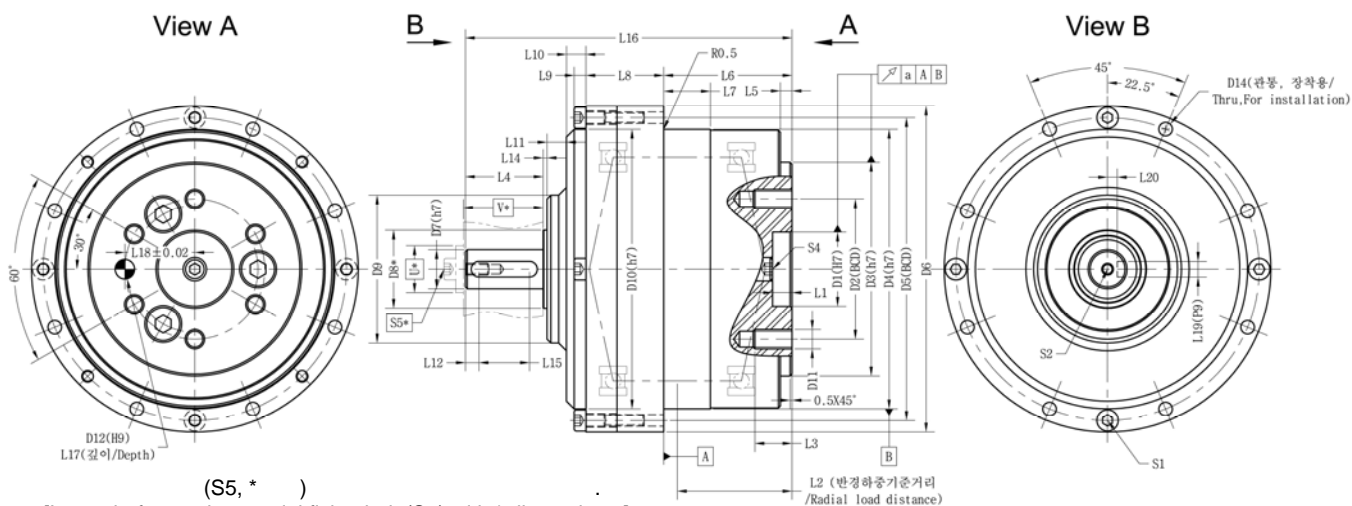
XP (1 C2 ) [XP (1 stage C2 input style) Dimensions] (mm)

Symbol	Size	XP07A	XP015	XP045	XP090
a		0.03	0.03	0.03	0.03
D1 (H7)		12	19	28	40
D2 (B.C.D)		28	36	60	80
D3 (h7)		42	55	75	105
D4 (h7)		57	72	100	130
D5 (B.C.D)		63	78	109	140
D6		69	84	118	150
D7 (G7)		11 [14]	14	19 [22]	24 [28]
D8 (h7)		44(H7)	45	63	90
D9 *		30.2 [50.2]	50.2	70.2 [80.2]	110.2 [110.2]
D10 (h7)		56	72	100	130
D11		6XM4	6XM5	6XM6	6XM8
D12 (H9)		4	5	6	8
D14		8X3.5	8X3.5	8X4.5	8X5.5
L1		5	5	8	7
L2		24.75	29.5	37	45.25
L3		7	9	11	15
L4 *		28 [30]	30	40 [58]	58 [58]
L5		3	3	3.5	3.5
L6		29	33	40.5	52.5
L7		12	12	17	21
L8		15.5	20	28	37
L9		-	3.5	4.5	4
L10		7	7.5	9	8
L11		(-)-4	3	3	3
L12 *		4 [5]	5	9 [11]	9.5 [9.5]
L14		7	11	11.5	17
L15 *		17.5 [18.5]	22.5	29.5 [46.5]	36.5 [36.5]
L16 *		69 [70]	83	107 [124]	134 [134]
L17		4	5	6	8
L18 ±0.02		14	18	30	40
L19		11 [12]	14	19 [19]	21 [21]
L20 *		40 [60]	60	80 [90]	120 [120]
S1		4XM3	4XM3	4XM4	4XM5
S2		8XM2.5 (B.C.D50)	8XM3 (B.C.D64)	8XM4 (B.C.D90)	12XM4 (B.C.D101)
S3 (Set screw)		-	2XM4	2XM4	2XM4
S4 (Set screw)		M6	M6	M6	M8
S5		M4	M5	M6	M8
S6 (Set screw)		M6 [M8]	M10	M12	M14
X°		7.5°	7.5°	10°	0°
Y°		15°	15°	20°	30° ( /Isometric)



**XP (2 C2 ) [XP (2 stage C2 input style) Dimensions] (mm)**

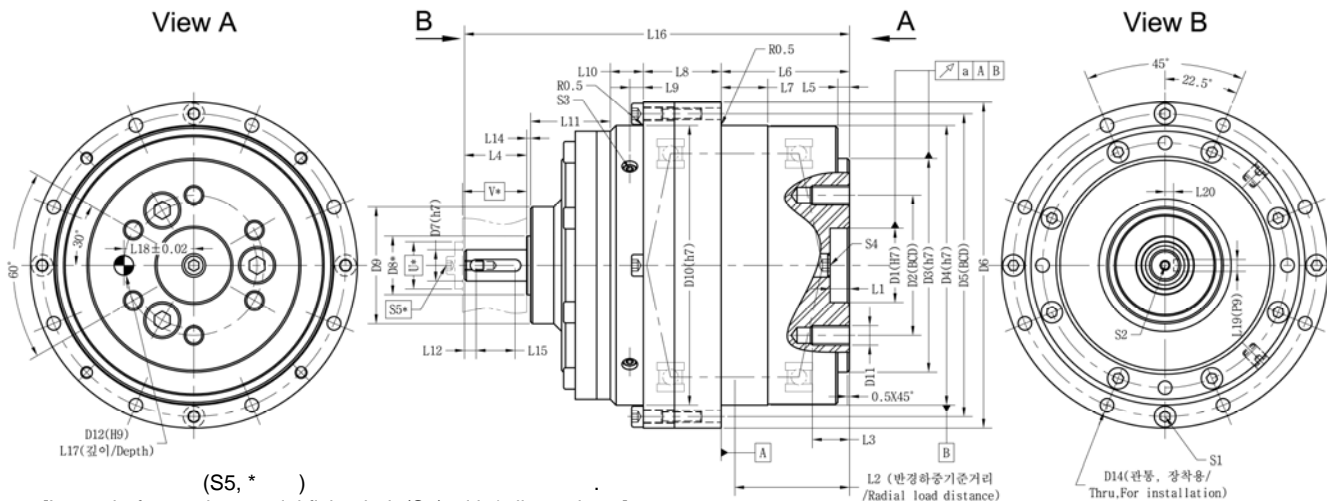
Symbol	Size	XP07A	XP015	XP045	XP090
a		0.03	0.03	0.03	0.03
D1 (H7)		12	19	28	40
D2 (B.C.D)		28	36	60	80
D3 (h7)		42	55	75	105
D4 (h7)		57	72	100	130
D5 (B.C.D)		63	78	109	140
D6		69	84	118	150
D7 (G7)		11 [14]	11 [14]	14 [19]	19 [22]
D8 (h7)		37	44(H7)	45	63
D9 *		30.2	30.2 [50.2]	50.2 [70.2]	70.2 [110.2]
D10 (h7)		56	72	100	130
D11		6XM4	6XM5	6XM6	6XM8
D12 (H9)		4	5	6	8
D14		8X3.5	8X3.5	8X4.5	8X5.5
L1		5	5	8	7
L2		24.75	29.5	37	45.25
L3		7	9	11	15
L4 *		28 [30]	28 [30]	30 [40]	40 [58]
L5		3	3	3.5	3.5
L6		29	33	40.5	52.5
L7		12	12	17	21
L8		15.5	20	28	37
L9		-(L9X2=8.5)	3.5 (L9X2=8.5)	23.5 (L9X2=13.5)	25 (L9X2=9)
L10		28	24.5	29	28
L11		4.5 [5]	(-)4	3	3
L12 *		4 [5]	4 [5]	5 [12]	9 [14]
L14		17	7	11	11.5
L15 *		27.5 [28.5]	17.5 [18.5]	22.5 [33]	29.5 [46.5]
L16 *		100 [101]	95 [96]	120 [130.5]	147 [164]
L17		4	5	6	8
L18 ±0.02		14	18	30	40
L19		11 [12]	11 [12]	14 [17]	19
L20 *		40 [60]	40 [60]	60 [80]	80 [120]
S1		4XM3	4XM3	4XM4	4XM5
S2		8XM3 (B.C.D45)	8XM2.5 (B.C.D50)	8XM3 (B.C.D64)	8XM4 (B.C.D90)
S3 (Set screw)		-	2XM4	2XM4	2XM4
S4 (Set screw)		M6	M6	M6	M8
S5		M4	M4	M5	M6
S6 (Set screw)		M6 [M8]	M6 [M8]	M10	M12
X°		22.5°	7.5°	7.5°	10°
Y°		45°	15°	15°	20°



(S5, \* )  
 [Input shaft must have axial fixing bolt (S5) with \* dimensions.]

**XP (1 S2 ) [XP (1 stage S2 input style) Dimensions] (mm)**

Symbol	Size	XP07A	XP015	XP045	XP090
a		0.03	0.03	0.03	0.03
D1 (H7)		12	19	28	40
D2 (B.C.D)		28	36	60	80
D3 (h7)		42	55	75	105
D4 (h7)		57	72	100	130
D5 (B.C.D)		63	78	109	140
D6		69	84	118	150
D7 (h7)		8	10	16	19
D8 *( /Min)		15	20	30	36
D9		30	38	54	66
D10 (h7)		56	72	100	130
D11		6XM4	6XM5	6XM6	6XM8
D12 (H9)		4	5	6	8
D14		8X3.5	8X3.5	8X4.5	8X5.5
L1		5	5	8	7
L2		24.75	29.5	37	45.25
L3		7	9	11	15
L4		16	20	30	38
L5		3	3	3.5	3.5
L6		29	33	40.5	52.5
L7		12	12	17	21
L8		15.5	20	28	37
L9		2.5	3	4.5	4
L10		3.5	5	8.5	6
L11		8	5	11	9
L12		3	3.5	5	6
L14		1	1	1	1
L15		10	13	19	26
L16		73	84	119	143.5
L17		4	5	6	8
L18 ±0.02		14	18	30	40
L19 (P9)		3	4	5	6
L20		2.2	2.5	5	6
S1		4XM3	4XM3	4XM4	4XM5
S2		M2.5 ( /Depth 4)	M3 ( /Depth 5)	M6 ( /Depth 11)	M6 ( /Depth 11)
S3		-	-	-	-
S4 (Set screw)		M6	M6	M6	M8
S5 *		M2.5	M3	M6	M6
S6		-	-	-	-
U *( /Min)		12	14	20	23
V *( /Min)		16.5	20.5	30.5	38.5

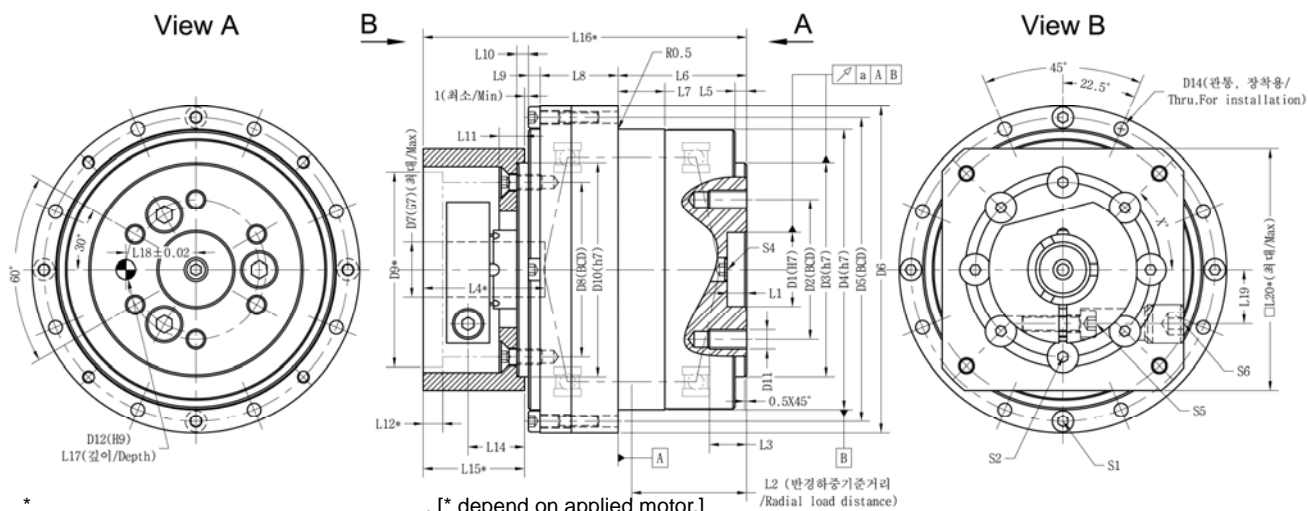


[Input shaft must have axial fixing bolt (S5) with \* dimensions.]

**XP (2 S2 ) [XP (2 stage S2 input style) Dimensions] (mm)**

Symbol	Size	XP07A	XP015	XP045	XP090
a		0.03	0.03	0.03	0.03
D1 (H7)		12	19	28	40
D2 (B.C.D)		28	36	60	80
D3 (h7)		42	55	75	105
D4 (h7)		57	72	100	130
D5 (B.C.D)		63	78	109	140
D6		69	84	118	150
D7 (h7)		8	8	10	16
D8 *( /Min)		15	15	20	30
D9		32	30	38	54
D10 (h7)		56	72	100	130
D11		6XM4	6XM5	6XM6	6XM8
D12 (H9)		4	5	6	8
D14		8X3.5	8X3.5	8X4.5	8X5.5
L1		5	5	8	7
L2		24.75	29.5	37	45.25
L3		7	9	11	15
L4		16	16	20	30
L5		3	3	3.5	3.5
L6		29	33	40.5	52.5
L7		12	12	17	21
L8		15.5	20	28	37
L9		-	3.5	-	-
L10		9	8.5	13.5	9
L11		29.5	20.5	18	29.5
L12		3	3	3.5	5
L14		1	1	1	1
L15		10	10	13	19
L16		100	99	121	159
L17		4	5	6	8
L18 ±0.02		14	18	30	40
L19 (P9)		3	3	4	5
L20		2.2	2.2	2.5	5
S1		4XM3	4XM3	4XM4	4XM5
S2		M2.5 ( /Depth 4)	M2.5 ( /Depth 4)	M3 ( /Depth 5)	M6 ( /Depth 11)
S3		-	M4	-	-
S4 (Set screw)		M6	M6	M6	M8
S5 *		M2.5	M2.5	M3	M6
S6		-	-	-	-
U *( /Min)		12	12	14	20
V *( /Min)		16.5	16.5	20.5	30.5





**XF (1 C2 ) [XF (1 stage C2 input style) Dimensions] (mm)**

Symbol	Size	XF07A	XF015	XF045	XF090
a		0.03	0.03	0.03	0.03
D1 (H7)		12	19	28	40
D2 (B.C.D)		28	36	60	80
D3 (h7)		42	55	75	105
D4 (h7)		57	72	100	130
D5 (B.C.D)		63	78	109	140
D6		69	84	118	150
D7 (G7) ( /Max)		11 [14]	14	19 [22]	24 [28]
D8 (B.C.D)		35	45	64.5	80
D9 *		30.2 [50.2]	50.2	70.2	110.2
D10 (h7)		42	55	75	105
D11		6XM4	6XM5	6XM6	6XM8
D12 (H9)		4	5	6	8
D14		8X3.5	8X3.5	8X4.5	8X5.5
L1		5	5	8	7
L2		24.75	29.5	37	45.25
L3		7	9	11	15
L4 *		28 [30]	30	40	60
L5		3	3	3.5	3.5
L6		29	33	40.5	52.5
L7		12	12	17	21
L8		15.5	20	28	34.5
L9		2	3	2	0
L10		2.5	3	4	4
L11		3	6.5	8	8
L12 *		4 [5]	5	10	9
L14		11	14.5	17.5	26.5
L15 *		21.5 [22.5]	26	35.5	46
L16		69 [70]	83	107	134
L17		4	5	6	8
L18 ±0.02		14	18	30	40
L19		11 [12]	14	19	21
L20 *( /Max)		40 [60]	60	80	120
S1		4XM3	4XM3	4XM4	4XM5
S2		8XM3 (Flat head)	8XM4 (Flat head)	8XM4	12XM4
S3		-	-	-	-
S4 (Set screw)		M6	M6	M6	M8
S5		M4	M5	M6	M8
S6 (Set screw)		M6 [M8]	M10	M12	M14
X°		45°	45°	45°	30°
Y°		-	-	-	-

## XP(XF) series [XP(XF) series Assembly Instructions]

**[General]:** [A torsionally rigid and backlash free connection between motor and XP(XF) can quickly and easily be achieved by using the following assembly instructions.]

**Note:** [Please only use motors with a flange face and run out accuracy class DIN 42955 N or DIN 42955 R]

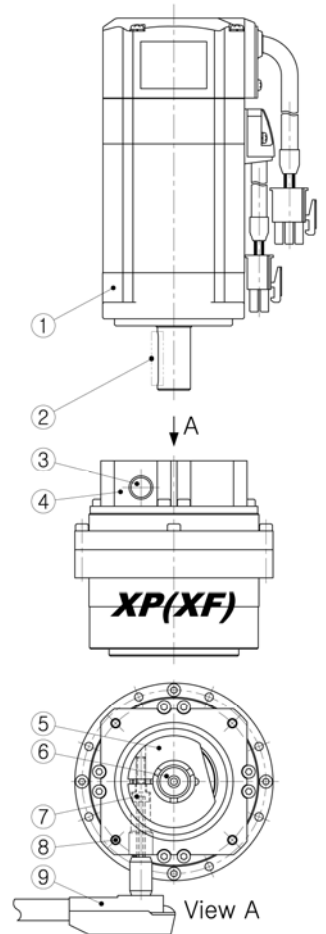
The XP(XF) [To avoid misalignment inside the power train, the standard XP(XF) utilizes our new "open centering" design making the laborious task of centering with the flange and pilot obsolete. Place XP(XF) upside down, simply insert the motor shaft into the gearbox hollow shaft, tightens the clamping bolt on the compression coupling, and attaches the gearbox to the motor using the mounting holes.]

The XP(XF) series are maintenance free and have a lifetime lubrication.

### [Motor Mounting Instructions]:

- Remove the set screw on the adapter flange, put it aside, reserving it for later use.
- Turn the compression coupling until the head of the clamping bolt is visible through the access hole.
- Examine all contact surfaces on the motor flange and the adapter flange to ensure they are clean and grease free. Also inspect the motor shaft and the hub to ensure they are free from damage (burrs, scoring, etc.).
- Place XP(XF) upside down (input side upward) and secure it from falling. Ensure that the key way in the motor shaft (if there is) is positioned opposite the slit (180°) in the compression coupling when assembled.
- If a reduction bushing is used, ensure the slit in the bushing is aligned with the compression coupling slit.
- Insert the motor shaft into XP(XF) hollow shaft, until the motor flange naturally mates with the adapter flange over its entire surface. Do not strike the XP(XF) or use excessive force to ensure a good fit.
- Tighten the clamping bolt to the prescribed torque (see table tightening torque) using a suitable torque wrench.
- Now bolt XP(XF) and motor together using the mounting holes in the adapter flange. The bolts must be diagonally transferred and uniformly tightened.
- Tightening access hole set screw into adapter flange.

Tightening torque for clamping bolt	
(KS B 1003)	
Clamping screw (DIN 912)	Tightening torque
M4	4.5Nm
M5	9Nm
M6	16Nm
M8	39Nm

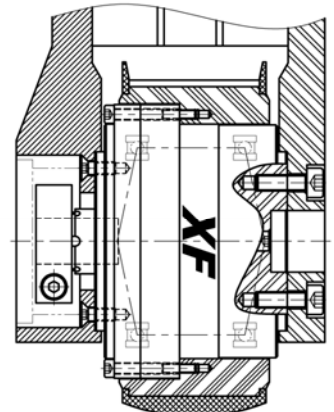
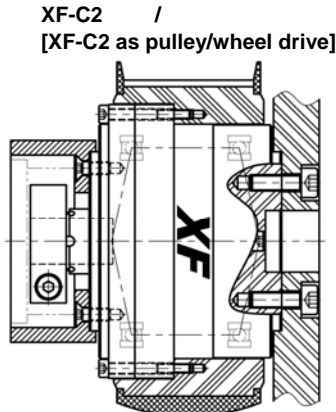
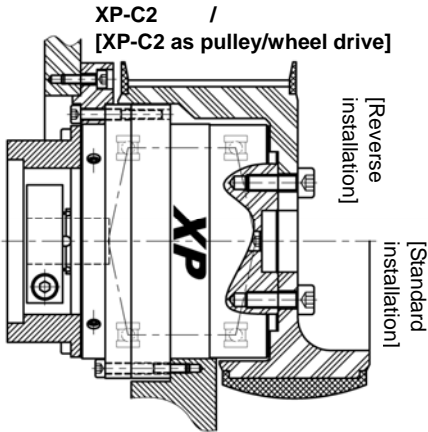


**Note:** [Failure to follow assembly instructions may lead to gearbox and/or motor damage and will void any warranty either explicit or implied.]

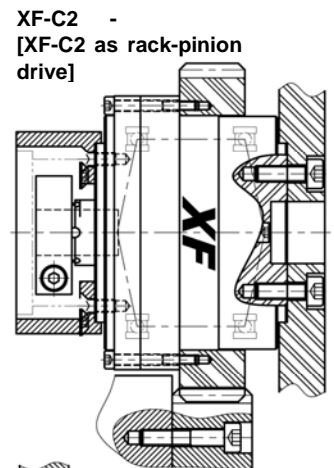
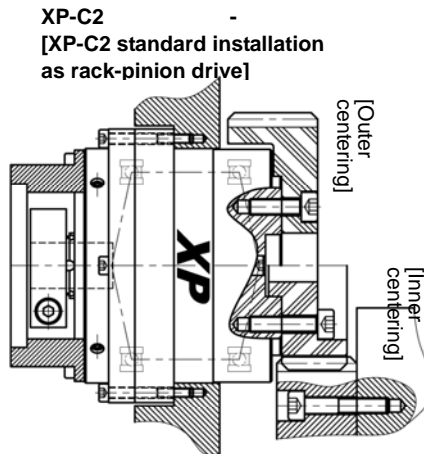
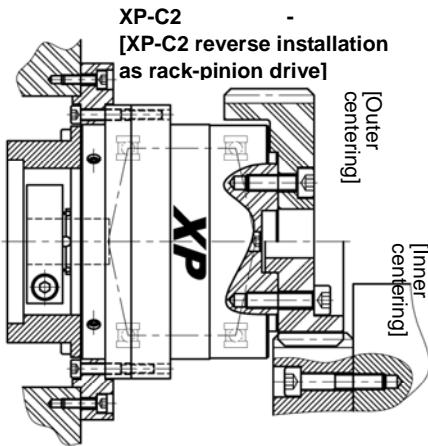
**XP (S2 ) [XP (S2 input style) input bearing capacity]**

[Combined] (@n <sub>in</sub> =2000rpm)		XP07A	XP015	XP045	XP090
[Max. radial load]	1 [1 st]	165N	250N	730N	910N
	2 [2 st]	165N	165N	250N	730N
[Max. axial load]	1 [1 st]	165N	250N	730N	910N
	2 [2 st]	165N	165N	250N	730N

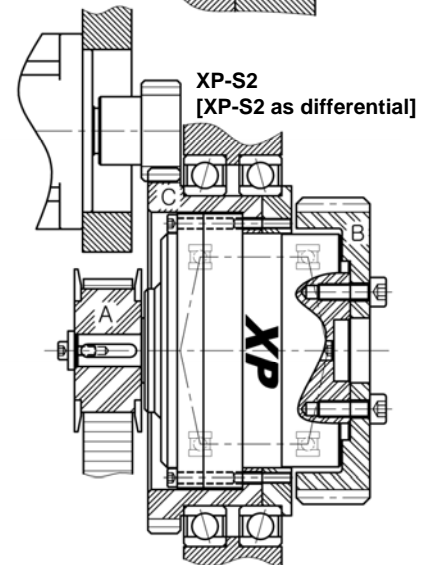
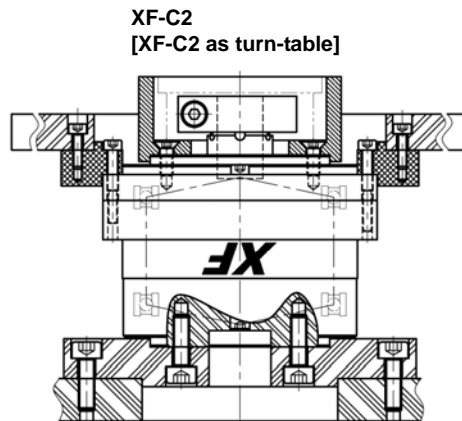
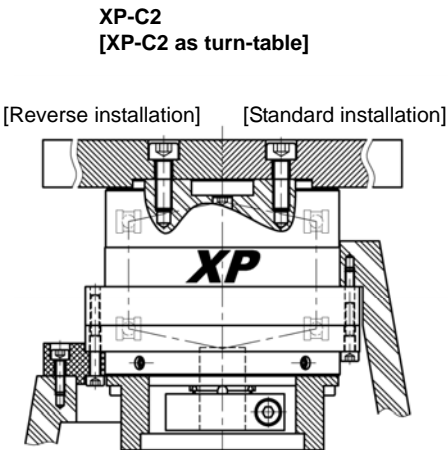
**XP(XF) [XP(XF) installation & application examples]**



XF-C2 /  
[XF-C2 as pulley/wheel drive with both end support]



XF-C2 -  
[XF-C2 as rack-pinion drive]



**[WARRANTY]**

가 XP(XF) ,  
1 2000

[SEJIN-iGB warrants to purchaser that the products manufacture by SEJIN-iGB shall be free from any defect in material and workmanship, provided that the equipment is appropriately used and those proper maintenance procedures are followed. The period of such mechanical warranty shall be for twelve (12) months following the date when the products are put into service but not exceeding two thousand (2000) working hours or sixteen (16) months after the date of the bill of landing for the products, whichever period expires earlier. If any defect is found to be as attributable to inferior quality of material or poor workmanship during such a warranty period, SEJIN-iGB shall replace the defective product with new product without any charge or expense on the part of purchaser; nevertheless, any transportation charges incurred shall be at purchaser's expense. SEJIN-iGB shall not be obligated to pay consequential damages incurred by the purchaser or any other party.]

SEJINiGB Co. Ltd

***Precision Performer***  
***(1arcmin)***

**Xeno-Quadro**

**Quadro-Hollow**



[Specifications are subject to change without notice.]

SEJINiGB (China) Co., Ltd  
301-606 Puchon Techno Park, No.365 Samjeong-Dong,  
Ohjeong-Gu, Puchon City, Kyonggi-Do, 421-741 Korea  
Tel. +82-32-621-1825 Fax. +82-32-621-1830

