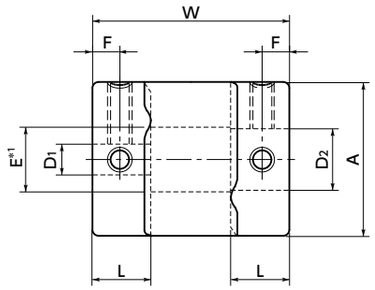
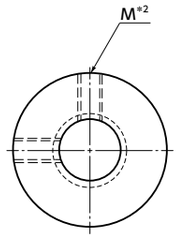
XGT Flexible Couplings - High-gain Rubber Type - Set Screw Type

Specification Change

Zero Backlash | High gain supported | High torque | Vibration absorption

XGT





*1: $E=D_2+0.5(D_2<5)$
$E=D_2+1(D_2\geq 5)$

*2: In a case where the bore diameter is ϕ 4 or less, the set screw is used in only one place.

Dimensions

Unit : mm

Part Number 1	A	L	W	F	M	Screw Tightening Torque (N・m)
XGT-15	15	6.5	23	3	M3	0.7
XGT-19	19	7.7	26	4	M3	0.7
XGT-25	25	9.5	32	5	M4	1.7
XGT-27	27	9.5	32	5	M4	1.7
XGT-30	30	11	36	5.5	M4	1.7
XGT-34	34	12	38	6	M5	4
XGT-39	39	15.5	48	8	M5	4
XGT-44	44	15	48	7.5	M6	7
XGT-56	56	19.5	60	10	M6	7

Part Number	Standard Bore Diameter (Dimensional Allowance H8) D_1-D_2 2									
XGT-15	3 - 5	3 - 6	4 - 4	4 - 5	4 - 6	4.5 - 5	5 - 5	5 - 6	6 - 6	
XGT-19	4 - 5 6.35 - 8	4 - 8 8 - 8	5 - 5	5 - 6	5 - 7	5 - 8	6 - 6	6 - 6.35	6 - 7	6 - 8
XGT-25	5 - 6 8 - 10	5 - 8 8 - 11	6 - 6 8 - 12	6 - 8 10 - 10	6 - 10 10 - 12	6 - 11 12 - 12	6 - 12	6.35 - 8	6.35 - 10	8 - 8
XGT-27	5 - 6 8 - 10	5 - 8 8 - 11	5 - 14 8 - 12	6 - 6 8 - 14	6 - 8 10 - 10	6 - 10 10 - 12	6 - 11 10 - 14	6 - 12 12 - 12	6 - 14 12 - 14	8 - 8 14 - 14
XGT-30	8 - 8 10 - 15	8 - 10 11 - 12	8 - 11 12 - 12	8 - 12 12 - 14	8 - 14 12 - 15	8 - 15 14 - 14	10 - 10 14 - 15	10 - 11 15 - 15	10 - 12	10 - 14
XGT-34	8 - 8 10 - 15	8 - 10 11 - 11	8 - 11 11 - 12	8 - 12 12 - 12	8 - 14 12 - 14	8 - 15 12 - 15	10 - 10 14 - 14	10 - 11 14 - 15	10 - 12 15 - 15	10 - 14 16 - 16
XGT-39	10 - 10 12 - 20	10 - 12 14 - 14	10 - 14 14 - 15	10 - 15 14 - 16	10 - 16 15 - 15	12 - 12 15 - 16	12 - 14 15 - 19	12 - 15 16 - 16	12 - 16 17 - 17	12 - 19 20 - 20
XGT-44	12 - 12 15 - 19	12 - 14 15 - 20	12 - 16 16 - 16	12 - 19 16 - 19	14 - 14 17 - 17	14 - 15 19 - 20	14 - 16 20 - 20	14 - 19	15 - 15	15 - 16
XGT-56	15 - 15	15 - 19	15 - 20	15 - 25	19 - 20	19 - 24	20 - 20	20 - 25	24 - 25	25 - 25

- All products are provided with hex socket set screws.
- Recommended tolerance for shaft diameters is h6 and h7.
- For the shaft insertion amount to the coupling, see Mounting/maintenance.

Additional Keyway at Shaft Hole ➡ P.xxxx	Cleanroom Wash & Packaging ➡ P.xxxx	Change to Stainless Steel Screw ➡ P.xxxx
Available / Add'l charge	Please combine with Stainless Steel Screw Alteration Service	Available / Add'l charge

Performance

Part Number	Max. Bore Diameter (mm)	Keyway Additional Modification Max. Bore Diameter (mm)	Rated *1 Torque (N・m)	Max. Rotational Frequency (min^{-1})	Moment*2 of Inertia ($kg \cdot m^2$)	Static Torsional Stiffness (N・m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass *2 (g)
XGT-15	6	–	1.1	42000	2.6×10^{-7}	43	0.15	1.5	±0.2	9
XGT-19	8	6	2.1	33000	7.5×10^{-7}	88	0.15	1.5	±0.2	15
XGT-25	12	9	4	25000	2.7×10^{-6}	140	0.15	1.5	±0.2	29
XGT-27	14	10	4	23000	3.6×10^{-6}	140	0.15	1.5	±0.2	32
XGT-30	15	11	6.3	21000	6.3×10^{-6}	220	0.2	1.5	±0.3	46
XGT-34	16	12	8	18000	1.1×10^{-5}	390	0.2	1.5	±0.3	66
XGT-39	20	15	13.5	16000	2.4×10^{-5}	520	0.2	1.5	±0.3	103
XGT-44	22	17	18	14000	4.0×10^{-5}	640	0.2	1.5	±0.3	133
XGT-56	28	22	35	11000	1.3×10^{-4}	1500	0.2	1.5	±0.3	267

*1: Correction of rated torque due to load fluctuation is not required. If ambient temperature exceeds 30℃, be sure to correct the rated torque with temperature correction factor shown in the following table.
The allowable operating temperature of XGT is −20℃ to 80℃.
※ The shaft's slip torque may be smaller than the coupling's rated torque depending on the shaft bore. ➡ P.xxxx

*2: These are values with max. bore diameter.

● Ambient Temperature / Temperature Correction Factor

Ambient Temperature	Temperature Correction Factor
−20℃ to 30℃	1.00
30℃ to 40℃	0.80
40℃ to 60℃	0.70
60℃ to 80℃	0.55

● Part number specification

XGT-39 - 12-20
1 2

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