

# XGT/XGL/XGS Flexible coupling - High-gain rubber type New Variation Added

WEB Selection Tool   WEB CAD Download   Zero Backlash   High gain supported   High torque   Vibration absorption

## Structure

### • Set Screw Type

**XGT** Standard type → P.xxxx

**XGS** Short type → P.xxxx



### • Single Clamping Type

**XGT-CS** Standard type → P.xxxx

**XGS-CS** Short type → P.xxxx



### • Double Clamping Type

**XGT-C** Standard type → P.xxxx

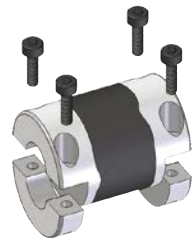
**XGL-C** Long type → P.xxxx

**XGS-C** Short type → P.xxxx



### • Split-type

Easy to mount and remove screws.



### • Material/Finish

RoHS Compliant

	XGT / XGL / XGS
Hub	A2017
Vibration-absorbing rubber	HNBR
Hex Socket Head Cap Screw / Hex Socket Set Screw	SCM435 / Ferrosferric Oxide Film (Black)

Additional Keyway at Shaft Hole → P.xxxx   Cleanroom Wash & Packaging → P.xxxx   Change to Stainless Steel Screw → P.xxxx  
Available / Add'l charge   Available / Add'l charge   Available / Add'l charge

### • Applicable motors

	XGT / XGL / XGS
Servomotor	○
Stepping Motor	○
General-Purpose Motor	○

○: Excellent ○: Very good

### • Property

	XGT / XGL / XGS
Zero Backlash	○
For servomotor high gain	○
High Torque	○
High Torsional Stiffness	○
Allowable Misalignment	○
Vibration absorption characteristics	○
Allowable Operating Temperature	-20°C to 80°C

○: Excellent ○: Very good

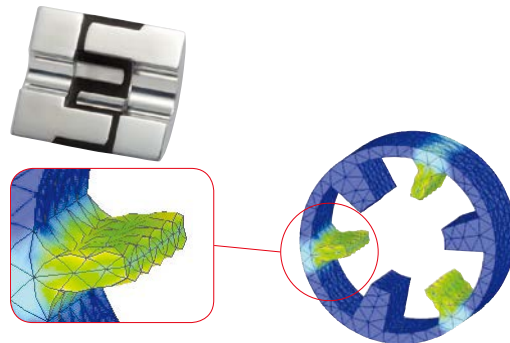
- This is a rubber high gain type flexible coupling optimized for actuators.
- Enables you to make high precision positioning in a short time.



- This is a single-piece construction with the two aluminum hubs molded with vibration absorbing rubber.
- About high-gain rubber coupling and reduction of stabilization time → P.xxxx
- Application

Actuator / Surface-mount machine / High precision XY stage / Index table

### • Internal Structure



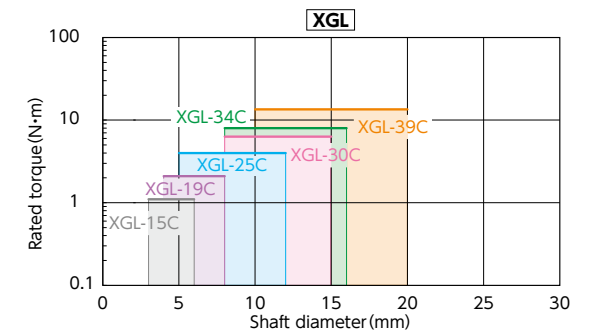
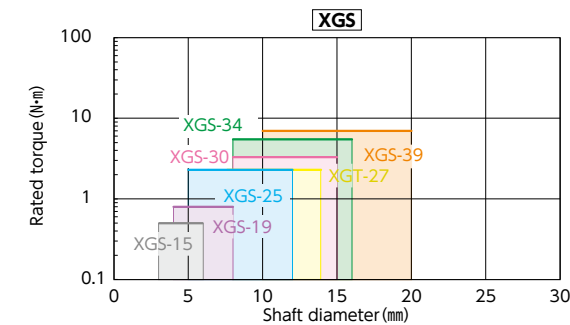
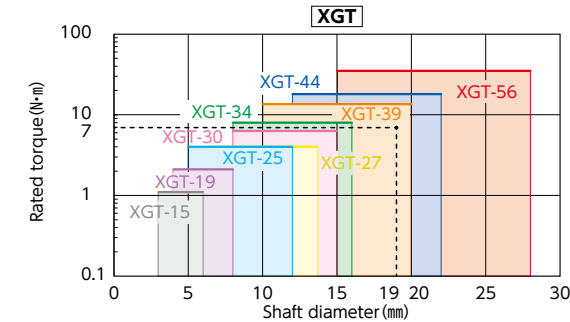
The designed shape of vibration-absorbing rubber achieved high torsional stiffness and high torque according to the newest finite element method. This product also succeeds in elongating its life by evenly dispersing the stress focusing on around the inner diameter of the jaw throughout the entire jaw.



## Selection

### • Selection based on shaft diameter and rated torque

The area bounded by the shaft diameter and rated torque indicates is the selection size.



### • Selection Example

In case of selected parameters of shaft diameter of φ 19 and load torque of 7 N·m, the selection size is **XGT-39C**.



### • Selection based on the rated output of the servomotor

Rated Output (W)	Servomotor Specifications*			selection size	
	Diameter of Motor Shaft (mm)	Rated Torque (N·m)	Instantaneous Max. Torque (N·m)	XGT / XGL	XGS
10	5 - 6	0.032	0.096	15C	15C
20	5 - 6	0.064	0.19	15C	15C
30	5 - 7	0.096	0.29	19C	19C
50	6 - 8	0.16	0.48	19C	19C
100	8	0.32	0.95	19C	25C
200	9 - 14	0.64	1.9	30C	30C
400	14	1.3	3.8	30C	34C
750	16 - 19	2.4	7.2	39C	-

\*Motor specifications are based on general values. For details, see the motor manufacturer's catalogs. This is the size for cases where devices such as reduction gears are not used.

### • Related Products

**XGT2** enables further improvement of productivity by adding damping performance to **XGT**.  
→ P.xxxx



### • Part number specification

**XGT-19C-6-8**

Product code   Size   bore diameter

Please refer to dimensional table for part number specification.