Table 1. Circular sample dimensions

ID of the test sample used*			
Dimensions (mm)	GL:_____ OD:_____ ID:_____	GL:_____ OD:_____ ID:_____	GL:_____ OD:_____ ID:_____
J** (m^4)			
k_{total} **(N-m/rad)**			
k_{sample} *** **(N-m/rad)**			
G (N/m^2)			
T_y or $T_{u\#}$ (N-m)			
T_{max} (N-m)			
τ_y or τ_u # **(N/m^2)**			
Fracture Description			

***Data file name**

****To convert mm^4 to m^4, multiply by 10^{-12}.**

*****Corrected for machine compliance**

 # T_y and τ_y for ductile materials, T_u and τ_u for brittle materials.

Table 2.Comparison sheet (Circular samples)

Specimen	1	2	3
ID of test sample used			
Material	AL 2024-T3	AL 2024-T3	AL 2024-T3
Reference material properties##	G= τ_y =	G= τ_y =	G= τ_y =
Nominal dimensions	GL: 88.9 mm OD: 12.7 mm ID: 0.0 mm	GL: 88.9 mm OD: 12.7 mm ID: 10.16 mm	GL: 44.5 mm OD: 12.7 mm ID: 10.16 mm
Measured size	GL: _____ OD: _____ ID: _____	GL:_____ OD:_____ ID: _____	GL:_____ OD:_____ ID:_____
J (m^4)			
Torsional stiffness, k_{sample} (N-m/rad)			
T_y **or** T_u *** (N-m)**			
Length ratio	$\frac{L\#1}{L\#1}=1$	$\frac{L\#2}{L\#1}=$	$\frac{L\#3}{L\#1}=$
Polar moment of inertia ratio	$\frac{J\#1}{J\#1}=1$	$\frac{J\#2}{J\#1}=$	$\frac{J\#3}{J\#1}=$
Stiffness Ratio	$\frac{k\#1}{k\#1}=1$	$\frac{k\#2}{k\#1}=$	$\frac{k\#3}{k\#1}=$
T_y **ratio**	$\frac{T_y\#1}{T_y\#1}=1$	$\frac{T_y\#2}{T_y\#1}=$	$\frac{T_y\#3}{T_y\#1}=$

##You can find these values in many mechanics of materials textbook. A quick web reference is www.matweb.com