

# Standard Spur Gear Size Chart

Number of Teeth	Module	Pitch Diameter	Outside Diameter
12	1	12 mm	14 mm
16	1	16 mm	18 mm
20	1	20 mm	22 mm
24	1.5	36 mm	39 mm
30	1.5	45 mm	48 mm
40	2	80 mm	84 mm
50	2	100 mm	104 mm
60	2.5	150 mm	155 mm
80	3	240 mm	246 mm

# Metric Gear Size Chart

Module	Common Tooth Counts	Typical Applications
0.5	10–60	Small instruments
1	12–80	Robotics and automation
1.5	15–100	Industrial drives
2	20–120	Machinery
3	20–150	Heavy-duty systems
4	30–200	Large industrial equipment

# Gear Ratio Chart

Driving Gear	Driven Gear	Gear Ratio
20 Teeth	40 Teeth	1:2
30 Teeth	60 Teeth	1:2
15 Teeth	45 Teeth	1:3
40 Teeth	20 Teeth	2:1
50 Teeth	25 Teeth	2:1