Mass properties of spur gear_am
Configuration: Metric - Spur gear 1.25M 26T 20PA10FW ---S26N75H50L10S2
Coordinate system: -- default --

Density = 0.001 grams per cubic millimeter

Mass = 7.498 grams

Volume = 7497.936 cubic millimeters

Surface area = 3852.070 square millimeters

Center of mass: (millimeters)
X = 5.000
Y = -0.031
Z = 0.000

Principal axes of inertia and principal moments of inertia: (grams * square millimeters)
Taken at the center of mass.

Ix = (0.000, 0.000, 1.000)	Px = 588.995
Iy = (0.000, -1.000, 0.000)	Py = 590.132
Iz = (1.000, 0.000, 0.000)	Pz = 1054.161

Moments of inertia: (grams * square millimeters)
Taken at the center of mass and aligned with the output coordinate system. (Using positive tensor notation.)

Lxx = 1054.161	Lxy = 0.000	Lxz = 0.000
Lyx = 0.000	Lyy = 590.132	Lyz = 0.000
Lzx = 0.000	Lzy = 0.000	Lzz = 588.995

Moments of inertia: (grams * square millimeters)
Taken at the output coordinate system. (Using positive tensor notation.)

Ixx = 1054.168	Ixy = -1.146	Ixz = 0.000
Iyx = -1.146	Iyy = 777.580	Iyz = 0.000
Izx = 0.000	Izy = 0.000	Izz = 776.450