

KISSsoft for Fine & Rough Sizing

Add additional KISSsoft modules for Fine & Rough Sizing

Benefits

- Can size from basic inputs like torque/power, speed in rpm along with ratio
- Size a gear pair and get data like center distance, strength, weight, safety factors, and contact ratio
- Optimise gear pair with respect to weight/strength/contact ratio/ no. of teeth/ transmission error
- Several gear pair data in seconds
- Available for cylindrical, bevel,

Rough sizing

Conditions Results

Helix angle at reference circle β 0.0000 °

Overlap ratio 0.0000

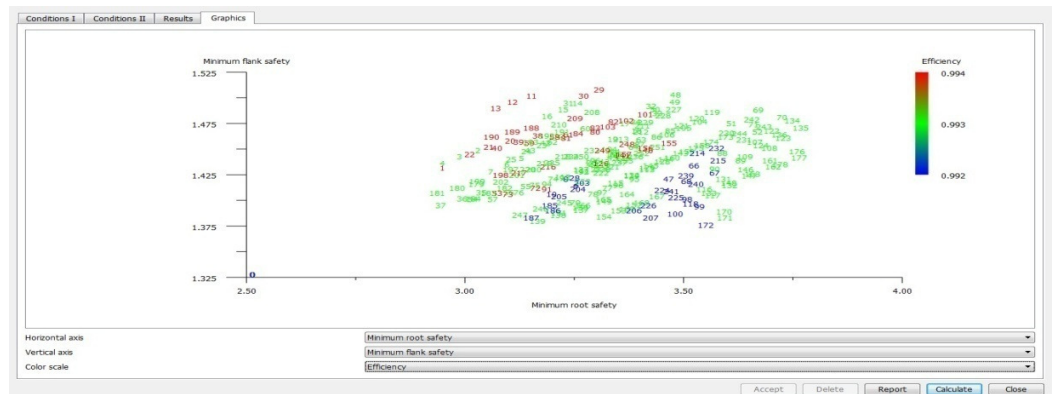
Center distance a 0.0000 mm

Nominal ratio/deviation in % i, ϵ 4.5000 1.0000

Suppress integer ratios

	Minimum	Maximum
Number of teeth, gear 1	Z_1 11	24
Ratio facewidth to normal module	b/m_n 6.0000	20.0000
Ratio facewidth to reference diameter, gear 1	b/d_1 0.0000	1.6000
Ratio facewidth to center distance	b/a 0.0000	0.7000

Accept Delete Calculate Close



Available Features

- Rough sizing
- Cylindrical gear pre-sizing (gear pairs, planetary trains)
- Sizing according to given safeties, several proposals
- Fine sizing
- Gear pairs, planetary trains, gear chains
- The optimization produces a list of all possible variants with various parameters; varying of gear module, number of teeth, profile shift, pressure angle, helix angle, center distance
- Considers assembly conditions
- For each solution a separate strength calculation is performed
- Automatic sizing of deep tooth form
- Calculation of transmission error for all variants
- All feasible solutions regarding geometry are listed

Add new modules, today!!!

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